

670	27364	92836	89428	61268	74982	36498	32764	81276	81276
4986	40932	70987	32123	49817	26346	81287	65491	87364	81276
721	75654	55656	12737	72727	72727	91918	63473	67867	76543
6723	87629	37677	32612	53498	71296	28756	18276	98716	87654
7269	76329	74698	76857	98670	27601	56701	57601	73648	15432
591	87364	87265	96710	27630	12673	84769	28743	98127	54321
658	63298	75698	27465	87326	49876	28376	81273	98615	62345
667	87432	74328	78674	29867	32867	67867	86786	43286	43286
667	68768	68763	34234	34238	68768	62342	48273	48768	23456
936	98432	32432	86743	43286	43286	43286	43286	43286	43286
743	86743	86743	39867	32867	86743	43286	43286	43243	86743
741	86743	86743	86743	86743	86743	86743	86743	86743	43567
543	98798	98754	98754	98754	98754	29867	67543	67986	86743
976	87698	69876	87698	69876	87612	12341	34867	86798	63210
967	43298	65656	56756	56123	32143	14321	32143	14321	32143
971	92787	58765	76587	58765	76587	58765	76587	58756	76587
971	75476	96543	54365	36543	54365	36543	54365	36543	54365

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #205, October 2014

Editor: Ary Boender email: ary@luna.nl

Check for previous newsletters, info, sound samples and databases also:

NUMBERS & ODDITIES <http://www.numbersoddities.nl>

SPY NUMBERS ONLINE DATABASE <http://www.spynumbers.com/numbersDB>

UTILITY DXERS FORUM (UDXF) <http://www.udxf.nl>

START PAGE <http://home.luna.nl/~ary>

HF UNDERGROUND <http://www.hfunderground.com/board/>

VOICE STATIONS



E06 / E06a

E06a, 20137 kHz, 02-10, 1500 UTC / 18724 kHz, 02-10, 1600 UTC

548 901 2 11111 00055

548 372 60

14409 06103 95141 09615 35522 93545 54920 87248 46994 15379
26184 52796 14515 20136 27066 49230 89536 23075 98775 82192
73193 69481 40853 89982 34989 71888 16044 61692 72215 50920
73242 45673 21036 34428 61936 15518 55154 94620 36600 85755
33023 27866 74457 94435 79551 06857 55068 94800 13153 59833
75163 23219 54229 56530 97176 35583 75875 05569 54902 29353
372 60 00000

E06, 5186 kHz, 02-10, 2030 UTC

981 237 20

37835 35787 58873 60187 16202 59625 31651 52538 61025 22567
53256 64723 40968 16891 63781 34820 04842 60491 75924 04594
237 20 00000

E06, 7984 kHz, 03-10, 1930 UTC with errors

158 247 60

41835 54974 66849 68178 44769 03462 30600 35010 24726 62996
80851 17901 43321 02758 43956 06779 13750 81472 52326 32270
07765 26046 56183 98984 90875 51307 41071 66640 96708 75551
24328 20620 (not repeat)! 79579 (not repeat)! 29010 63243
243 391 565 5659 85291557 21557 384865 4865 55032 77320 29660
88922 63522 05237 68715 42421 26327 16810 19334 84178
247 60 00000

E06, 13457/10204 kHz, 10-10, 1740/1840 UTC

634 109 52

18442 96169 83518 34326 86365 99859 75337 25408 27390 61471
07931 21510 25819 04455 83195 30335 86260 57294 45777 61224
60964 83949 04015 73613 10850 82744 93161 36912 23666 70911
66837 31501 37713 96963 27638 45524 44574 48083 32838 47178
69281 44722 36140 37167 51367 39595 51382 11027 75227 63252
49165 85999
109 52 00000

E06, 17470 kHz, 17-10, 0600 UTC

186 537 104

15690 46204 24021 20319 67777 09447 37372 88288 91331 33940
34358 50406 10801 90429 86260 25846 10893 21673 77939 69253
91577 36186 70303 51849 17322 73174 18737 22305 65255 62102
64669 33353 01941 25317 42480 45049 43456 97190 68920 40638
78460 58191 07245 15950 58929 07339 23230 28271 88263 24176
75287 15625 61443 74795 05835 22403 36921 17053 26131 92275
44940 33915 11753 14332 61969 37872 50903 33370 05932 63151
12740 60300 31930 63074 27916 43567 33145 33296 98503 87554
76589 09354 79511 28899 28426 11976 99162 06648 48514 38577
10139 87203 58885 24389 88957 29994 15833 21650 25693 04799
40297 70303 71211 59031
537 104 00000

E06a, 15836 kHz, 17-10, 1730 UTC

302 517 2
11111 00059
517 2

E06, 5197 kHz, 17-10, 2130 UTC. Note the 3rd and 4th groups

634 921 20
14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
921 20 00000



E07

13376/12176/10776 kHz, 22-10, 1700/1720/1740 UTC

317 1 (R) 497 107 497 107
62026 35165 18512 64095 34268 36158 39514 03199 30546 57417
18664 39346 84544 30310 98059 92473 14747 45888 69101 75637
35694 62937 51843 38920 19614 19137 65227 26427 81411 54662
94803 56692 66385 43778 96907 16879 21163 19009 10787 07833
40823 09297 64369 75064 94638 08032 35167 57358 87985 46945
71742 02980 97966 97336 15324 85906 44227 68017 09827 96345
91679 01500 70712 90103 78097 88676 68522 28890 88582 48214
61005 56130 58632 59686 64836 35110 67498 04006 59574 96479
77442 82104 23122 53606 74160 80425 36530 42403 77372 79558
86247 29470 08040 28802 38098 01880 66800 13132 43574 25820
53141 09680 40080 33537 13886 09628 02272
000 000



E11/ E11a

As per the 27th an exercise started using call 121. It ended on 30-10 with an E11c message.

5194 kHz, 03-10, 1710 UTC

955/23 Attention
57767 90314 64377 43817 02023 37997 68731 16267 58168 53619
19650 56038 62488 25458 11156 48466 58882 22126 57674 46877
26481 94487 07714
Attention, rpt msg, out

13375 kHz, 06-10, 1110 UTC

953/31 Attention
12889 20850 55997 29224 37548 99411 91863 00742 38556 61570
55154 33288 09817 37221 01460 76034 22216 15405 18867 18067
08739 67057 78206 17670 92877 04977 07733 66962 29683 81806
40728
Attention, rpt msg, out

10800 kHz, 09-10, 0645 kHz

519/37 Attention

79526 75038 91591 50266 57992 11378 84512 51144 86022 05931
64539 46510 05687 03697 61545 41508 65768 18960 41163 03970
69256 87891 52190 75965 38122 17225 10119 86705 90882 66277
38703 67673 28704 38394 34359 89788 10570

Attention, rpt msg, out

15915 kHz, 09-10, 1155 UTC

712/36 Attention

63059 46385 28528 47308 00485 39367 89369 50411 39650 27730
21939 65008 25458 79428 08398 90247 89603 71081 59258 03714
61953 25099 21955 82928 38460 72279 12160 55158 05376 47927
45137 64323 18318 61380 39692 01111

Attention, rpt msg, out

5194 kHz, 10-10, 1710 UTC

954/32 Attention

17998 65973 73222 86847 69818 54901 76539 61355 40494 00298
11450 00877 66322 39730 51834 23979 24503 81469 59416 32505
44722 98948 48140 50138 49073 84438 71279 13373 17623 95531
85277 17499

Attention, rpt msg, out

5194 kHz, 13-10, 1710 UTC

953/30 Attention

18429 97079 49745 03716 10230 24684 77336 36327 16024 07014
50954 46900 50961 39180 40363 37936 99640 67406 61645 74294
92154 67983 50135 70131 06818 74767 40959 63681 97779 38666

Attention, rpt msg, out

9371 kHz, 16-10, 1730 UTC. Sends 39 groups !!

413/38 Attention

75589 06043 03706 88146 27384 97451 08440 21879 35655 94282
84066 57018 29266 08135 87308 92401 88139 27526 79403 69210
39622 28183 59785 70274 94513 46984 34649 17134 20734 13289
87060 76400 36947 20681 70208 88746 68874 18923 59191

Attention, rpt msg, out

5194 kHz, 17-10, 1710 UTC

957/27 Attention

99571 20311 57480 18317 85582 29775 90647 17732 90817 98085
96002 21300 98285 04003 26159 15206 83393 95052 50131 42434
02700 78693 41511 36293 74519 42907 23730

Attention, rpt msg, out

13375 kHz, 20-10, 1110 UTC

950/40 Attention

02815 32401 79065 41482 64651 28075 26134 83629 66770 52509
82064 61938 62745 01264 84798 45065 84802 31193 19283 89437
02879 35779 91287 37754 05886 77171 15079 59618 54126 30942
89064 51797 25935 87917 95668 55502 73795 34679 75146 41406

Attention, rpt msg, out

5194 kHz, 20-10, 1710 UTC

955/30 Attention

51692 05499 22753 72817 31228 59975 52527 30140 44088 94815
72691 08627 75754 06057 11281 08937 52366 91972 84699 30068
86550 50215 23031 08712 10232 03883 75579 22703 08625 57202

Attention, rpt msg, out

10221 kHz, 21-10, 0710 UTC

630/35 Attention

04408 19177 19198 45117 42028 41212 44971 81427 59203 61895
43914 68801 01227 41728 58284 33819 00791 67284 73525 03734
19846 57633 20319 51237 93180 65467 70534 78841 20313 12031
87474 75338 37902 53675 53734

Attention, rpt msg, out

14575 kHz, 21-10, 0745 UTC

333/38 Attention

98284 60898 32658 46101 02497 06688 05332 38580 55663 07933
32385 41187 03323 95726 24593 41221 38406 20859 00522 53703
22965 71922 27808 03901 80115 85284 62123 36090 97587 61360
48823 11681 68263 63812 18789 37164 40022 14915

Attention, rpt msg, out

10221 kHz, 24-10, 0710 UTC

630/35 Attention

04408 19177 19198 45117 42028 41212 44971 81427 59203 61895
43914 68801 01227 41728 58284 33819 00791 67284 73525 03734
19846 57633 20319 51237 93180 65467 70534 78841 20313 12031
87474 75338 37902 53675 53734

Attention, rpt msg, out

5194 kHz, 24-10, 1710 UTC

954/26 Attention

31702 51562 70442 36303 73880 85931 33411 91809 58992 07923
05990 15986 28632 14471 57588 55168 49020 54464 91354 92948
39824 43012 73631 79538 16907 39293

Attention, rpt msg, out

10213 kHz, 27-10, 0745 UTC

261/33 Attention

53477 31735 47709 25198 09067 83202 89986 90584 85076 47246
23687 72796 65468 81706 45393 03235 04687 06918 45106 84997
04373 85695 23927 56951 83679 93046 35472 17325 38539 41174
21804 18862 83983

Attention, rpt msg, out

5194 kHz, 27-10, 1710 UTC

955/30 Attention

91361 14074 49338 98916 16885 80541 32799 11194 14955 95850
88852 41050 47379 87140 97551 34059 05926 38100 52653 15468
08905 53756 18073 61133 97868 69462 45147 24322 28099 70961

Attention, rpt msg, out

10298/4638/5148 kHz, 27-10, 1000/1810/1840 UTC

121/20 Attention

75592 06568 08708 97347 59112 62288 60027 21275 77282 09325
88191 62692 65187 71275 49867 98417 60368 90772 36798 75163

Attention, rpt msg, out

4242/4536 kHz, 27-10, 2010/2040 UTC

121/25 Attention

90139 54879 19211 67801 38559 42078 91689 52724 24776 18753
08525 72668 64610 54170 77352 48604 81437 20667 55894 42959
95915 03273 00212 62635 05014

Attention, rpt msg, out

4638/5194 kHz, 28-10, 1810/1840 UTC

121/25

71511 63804 32710 87583 88559 66972 01350 55989 01153 73159

92462 89006 18898 73229 97757 57566 73545 76762 66745 38233

35213 38762 18444 54717 66361

Attention, rpt msg, out

4242/4536 kHz, 28-10, 2010/2040 UTC

121/20 Attention

01713 76950 25393 75512 08104 08098 18691 00884 41369 07771

89998 11526 42117 05010 33475 32204 96424 48849 06675 21619

Attention, rpt msg, out

8803 kHz, 29-10, 0930 UTC

273/38 Attention

14010 11781 04908 23573 95342 95952 08208 71233 27337 71710

92721 30097 74875 01771 23136 08225 60143 21523 29884 00587

67490 72195 27463 76580 67563 69412 93097 47827 27959 56170

36079 97191 48987 46994 57780 97536 88881 64562

Attention, rpt msg, out

13375 kHz, 31-10, 1110UTC

956/36 Attention

72267 72055 60058 85797 97084 31133 98063 40680 71962 81020

77307 33968 31790 38556 94910 26080 75295 51499 12883 72395

37839 86924 59140 73697 64585 78311 82030 76340 99094 28576

79111 78555 33696 64653 23931 93636

Attention, rpt msg, out

7377 kHz, 31-10, 2000 UTC

576/38 Attention

59051 05661 50429 76489 52779 06221 60507 24030 66628 16840

48335 52177 32841 09823 15678 50240 84361 42677 97487 05418

26330 74354 36977 54426 61463 83416 21755 22749 16376 83459

59491 88889 62231 54776 39927 86226 57363 44967

Attention, rpt msg, out

E11c, 8186 kHz, 30-10, 0855 UTC

121/222/00

This message ends the exercise with call 121

13375 kHz, 04-10, 1400 UTC

980/10 Attention 19698 60001 38808 59459 94749 41744 94935 54193 54200 33369 Attention, rpt msg, out

13455 kHz, 04-10, 1810 UTC

981/10 Attention 97500 09178 91683 61346 13082 33026 47432 31201 00762 95664 Attention, rpt msg, out

13375 kHz, 07-10, 1400 UTC

981/10 Attention 57574 50783 58751 94593 51401 52166 53634 74451 10013 23133 Attention, rpt msg, out

13455 kHz, 07-10, 1810 UTC

982/10 Attention 49554 49457 36098 88058 98726 11533 00160 52232 49352 69150 Attention, rpt msg, out

13375 kHz, 11-10, 1400 UTC

987/10 Attention 72107 31623 47480 15028 34137 20092 69870 55201 26028 67121 Attention, rpt msg, out

13375 kHz, 14-10, 1400 UTC

983/10 Attention 89179 51771 77857 33513 71431 51929 60804 99578 30083 44824 Attention, rpt msg, out

13455 kHz, 14-10, 1810 UTC

985/10 Attention 23812 11411 08141 96333 17089 39873 94275 74791 43434 20132 Attention, rpt msg, out

10213 kHz, 18-10, 0530 UTC

984/10 Attention 10675 58616 42334 28169 88685 32259 14149 52225 38721 40563 Attention, rpt msg, out

13375 kHz, 18-10, 1400 UTC

988/10 Attention 37810 16202 88741 52764 94125 69448 57663 91550 04165 36757 Attention, rpt msg, out

13375 kHz, 21-10, 1400 UTC

984/10 Attention 61524 08560 10216 83041 10362 78009 47989 61689 63395 50918 Attention, rpt msg, out

13455 kHz, 21-10, 1810 UTC

980/10 Attention 51193 46638 74822 59419 68445 90342 40754 24146 61593 89568 Attention, rpt msg, out

13375 kHz, 25-10, 1400 UTC

982/10 Attention 05938 95210 80774 17468 17103 16781 57114 99718 69254 72092 Attention, rpt msg, out

13375 kHz, 28-10, 1400 UTC

987/10 Attention 95916 48775 88150 44873 46702 54040 43142 47357 41962 11377 Attention, rpt msg, out)

13455 kHz, 28-10, 1810 UTC

985/10 Attention 74553 60945 89045 35569 87585 46864 66064 59242 30094 25721 Attention, rpt msg, out



E17z

6325 kHz, 10-10, 1809 UTC

Carrier with the test tone was first noticed at 1758 UTC, soon followed by two voice tests.

274 (R4) 518 30

80939 34431 94276 54537 549*off*

274 (R1)

80939 34431 94276 54537 54928 33165 37858 39528 83873 44344

99168 47130 43404 40105 34883 84597 81254 90487 53953 36540

36626 27996 31664 44527 12577 94353 94358 44126 31653 31828

518 30 0 0 0 0

E17z has been pretty interesting during September and October. Lots of mistakes. The following one is the best one so far. Copied by Leif.

7636 kHz, 17-10, 0900 UTC.

At first the usual female voice came up. At 0915 UTC the station switched to a human operator reading out numbers "live".

A recording of the complete transmission can be found here: http://signals.taunus.de/PUB/7636_kHz.zip

YL synthesized voice: 274 839 20 - fail in progress - back with live OM – ping 2 274 27 274 274 274 (rptd) 47230 47230 90367 90367 46436 46436 58091 58091 30996 30996 830 830 20 20 00000



E25 / E25a

9450 kHz, 09-10, 1215 UTC / 9450 kHz, 11-10, 1215 UTC

Enta Omri 883 5 0 5555 835 830 5555 835 830 5555 5555 5555 5555 5555

Message Message Message 2080 6760 9376 9612 8124 3959 6760 7179

Rebeat Rebeat Eat (yes seriously, she said EAT) 2080 6760 9376 9612 8124 3959 6760 7179

End Of Message, End of Transmission, Windows XP shutdown sound

9450 kHz, 12-10, 1215 UTC

Ente Omri. 830 7 (rptd)

Message, Message, Message,

Rebeat, Rebeat, Rebeat,

End of message, End of transmission



G06

10755 kHz, 01-10, 0400 UTC: sends "801" for 29 minutes. Ends at 0429 UTC

10755 kHz, 01-10, 0430 UTC: sends "975" for 3h40mins. Message starts at 0810 UTC

10755 kHz, 01-10, 0810 UTC

975 946 57

49039 27884 07709 43240 70052 10461 72092 42481 51987 44385

40985 73443 89996 03834 52341 36236 11261 32894 42489 66962

43637 82542 99781 49751 94556 98896 74605 10521 38618 54941

06661 97180 37305 42781 55485 75931 39277 69027 45113 98376

34657 19799 58853 19119 61765 88234 45089 68532 89730 81279

20060 10397 25415 48067 78542 39084 18100

946 57 00000

4573/5478 kHz, 06-10, 1700/1800 UTC

4573/5478 kHz, 13-10, 1700/1800 UTC

367 124 083

03714 97114 56953 85130 58339 57963 98024 70124 96210 15979

79359 35522 05395 58343 28864 18289 59906 05557 16732 48085

00390 83272 49910 12650 75026 76722 56375 52191 03992 92024

99354 18794 59938 92220 17959 13596 73489 44695 57765 49006

04390 77029 78243 76623 11613 05793 44403 63564 43478 74834

13536 86647 41925 26109 80212 81317 47546 57714 22827 16490

58348 88074 98305 85991 95659 51171 20828 91059 64022 13456

37391 36374 59825 87724 76076 72497 34861 89315 86202 03370

74303 33798 28979

124 083 00000

5934 kHz, 09-10/16-10, 1830 UTC

579 832 20

37839 35787 98273 60187 16202 95625 31691 52538 61025 22567

93296 67423 40968 16891 63781 34820 04842 60491 75924 04594

832 832 20 20 00000

6982 kHz, 18-10, 2100 UTC

167 167 167 00000

with S06 in the background. S06 found on 7908 kHz with message 278 278 278 00000



S06

4629 kHz, 11-10, 1935 UTC

396 425 37
 35480 13318 02696 49280 93694 56197 56941 50953 10433 82894
 73586 06278 07397 81348 10377 25498 34748 32808 42132 14749
 57606 11125 44578 81867 10629 12456 89263 02575 43706 70016
 19173 60260 71429 17875 01345 14821 74335
 425 37 00000

15721 kHz, 20-10, 0400 UTC

480 719 50
 39025 30177 99318 68700 42777 18073 89463 97635 03031 19788
 13044 5453 7 02358 89650 24104 97609 36726 32188 43696 96186
 78119 33958 12784 73968 84517 32191 29217 52685 11922 93693
 35989 67095 08129 02440 52938 91278 92920 79288 69106 69142
 54374 82273 37918 59099 15968 60894 42389 28834 54178 62843
 719 50 00000

20312 kHz, 24-10, 0830 UTC

842 605 49
 98063 22555 25725 16379 24750 72486 17574 84908 05518 25433
 20310 41636 25727 51006 10117 79033 31489 61326 13670 03518
 51695 52241 90664 79236 23109 19586 86181 44930 01129 29071
 86181 44930 51695 90664 01129 23109 19586 52241 59071 79236
 96521 70124 87425 68742 48574 15466 21749 00021 15648
 605 49 00000



S25

18039 kHz, 29-10, 1050 UTC

049 61922 049 68382. Switches to 14405 kHz at 1058z.

14405 kHz, 29-10, 1058 UTC

049 72742 049 65382 00000 00000. Comes from 18039 kHz



S28 - The Buzzer

Mode: USB
 Frequency: 4625 kHz

01-10, 1307 UTC	MDZhB 94 041 LEVICHAR 31 80 92 4
02-10, 1214 UTC	MDZhB 01 842 ZIZIFUS 77 24 82 09
02-10, 1409 UTC	MDZhB 24 612 METROKIN 84 23 29 62
05-10, 1245 UTC	Unreadable
05-10, 1314 UTC	MDZhB 27 262 VEChEYa 90 80 76 97
06-10, 1228 UTC	MDZhB 39 870 VERShADEc 26 82 06 66
06-10, 1307 UTC	MDZhB 03 996 SAMOSMAZKA 80 73 47 47
08-10, 1342 UTC	MDZhB 21 995 LIVADA 11 18 11 93
09-10, 1223 UTC	MDZhB 46 519 BAZOAR 18 33 19 97

19-10, 0906 UTC	MDZhB 19 449 GIPERYaDRO 19 22 74 30
20-10, 1647UTC	MDZhB 01 877 MALOVYeTRIYe 66 44 25 72 SINHROTRON 90 81 94 28 Priyom
23-10, 1332 UTC	MDZhB 48 378 MARTIROLOG 01 28 99 41
23-10, 1337 UTC	MDZhB 24 040 UDAR 99 81 21 43
23-10, 1443 UTC	MDZhB 61 179 OBZhIMOChNYJ 68 09 44 02
23-10, 1452 UTC	MDZhB 36 346 NIZKIJ 87 23 43 38
23-10, 1454 UTC	MDZhB 91 816 EVANGELIST 04 95 59 36
23-10, 1500 UTC	MDZhB 48 711 ChERPAL'ShchIK 22 57 20 82
23-10, 1626 UTC	MDZhB 07 255 SANDALIN 65 60 95 31
24-10, 1212 UTC	MDZhB 43 418 GIRLO 96 04 62 35
27-10, 1354 UTC	MDZhB 35 554 MALOGEN 46 35 31 97
27-10, 1433 UTC	MDZhB 80 234 CHIANURI 87 00 05 56



S30 - The Pip

Modes: CW (Pip), USB (messages)
Frequencies: 3756 kHz (night), 5448 kHz (day)

S30 has been testing its backup frequencies. 3671 kHz on 10 and 11 Oct. and 3746 kHz on the 12th and 19th (info: DJ Peter)

5448 kHz, 02-10, 0629 UTC	8S1Shch 65 212 KELERIYa 41 11 80 93
5448 kHz, 02-10, 0650 UTC	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA
3756 kHz, 03-10, 1601 UTC	79AJ P'HSch 6EHB CP3' ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG
5448 kHz, 04-10, 1359 UTC	8S1Shch 79 076 DUHOVOJ 61 33 27 58
5448 kHz, 06-10, 1227 UTC	8S1Shch 37 051 OREZAN 34 80 90 57
3756 kHz, 08-10, 1739 UTC	DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5E F61N
3756 kHz, 11-10, 0234 UTC	LI27 INNC ShchGJP 8CSchJ TZLM FY5E F61N Z7CN MUDR 7VNShch
3756 kHz, 12-10, 1700 UTC	P'HSch 6EHB CP3' ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG Z'1B
5448 kHz, 14-10, 1308 UTC	HCLF 61HZh ZBIL L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR
3756 kHz, 14-10, 1703 UTC	5JShch 27Shch' N1DU 53OB 78MV 12CI 79AJ P'HSch 6EHB CP3'
3756 kHz, 16-10, 1727 UTC	L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU
3756 kHz, 18-10, 1553 UTC	PMV5 L'GJ TschSchchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE
5448 kHz, 19-10, 1352 UTC	Z'1B CI9V ZhSK4 5FSSch DEAY DMC3 49FT C2ZA LI27 INNC
5448 kHz, 20-10, 1301 UTC	VHT3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI 4RVZ 3VS'
5448 kHz, 20-10, 1344 UTC	53OB TSchSchchS 53 634 07 647 DIRBORNEC 55 52 36 58
5448 kHz, 22-10, 1357 UTC	8S1Shch 08 298 GRANATOID 98 85 41 75 NALIVCHATYJ 75 30 56 96
3756 kHz, 23-10, 0324 UTC	CJ5C 42BV 81BR M7KS PMV5 L'GJ TschSchchS VKY1 HCLF 61HZh
5448 kHz, 23-10, 1300 UTC	8S1Shch 89 937 KARVOZVIN 05 77 34 39
5448 kHz, 23-10, 1330 UTC	8S1Shch 52 614 NEKROZ 91 95 70 10
5448 kHz, 23-10, 1443 UTC	8S1Shch 45 600 SEKKO 00 43 16 95
5448 kHz, 23-10, 1453 UTC	8S1Shch 22 479 KOKVIMBIT 16 62 32 29
3756 kHz, 23-10, 1627 UTC	8S1Shch 81 727 ENOL 01 67 17 52
3756 kHz, 25-10, 1458 UTC	8S1Shch 79 189 TOKMACH 88 49 36 89 HABUR 00 64 58 58
3756 kHz, 26-10, 1835 UTC	S7ZhG Z'1B CI9V ZhSK4 5FSSch DEAY DMC3 49FT C2ZA LI27
5448 kHz, 27-10, 0500 UTC	YMA5 VHT3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI 4RVZ
5448 kHz, 27-10, 1354 UTC	8S1Shch 13 695 ARYS 40 13 11 36



S32 - Squeaky Wheel

Mode: USB
Frequencies: 3838 kHz (night), 5473 kHz (day)

3828 kHz, 01-10, 1859 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
5473 kHz, 02-10, 1301 UTC	ALFA-45 96 418 BETOK 69 48 68 36
5473 kHz, 02-10, 1307 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29 STOROZh-62 YaHTA-94
5473 kHz, 03-10, 1205 UTC	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
3828 kHz, 04-10, 1403 UTC	ALFA-45 25 629 DIKARI 26 10 83 11
5473 kHz, 06-10, 1232 UTC	ALFA-45 64 896 KARANFIL 06 33 06 93

5473 kHz, 06-10, 1311 UTC	ALFA-45 09 253 RASSTAVKA 78 81 65 87
5473 kHz, 08-10, 1206 UTC	ALFA-45 33 020 KALIL'ShchIK 88 34 68 36
5473 kHz, 08-10, 1741 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64
5473 kHz, 09-10, 1144 UTC	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
3828 kHz, 09-10, 1530 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
5473 kHz, 10-10, 0709 UTC	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 13-10, 0728 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
5473 kHz, 13-10, 1205 UTC	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 14-10, 1050 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
5473 kHz, 14-10, 1353 UTC	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
3828 kHz, 14-10, 1706 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
5473 kHz, 15-10, 1146 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64
3828 kHz, 15-10, 1446 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
5473 kHz, 16-10, 1229 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 16-10, 1533 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 16-10, 1901 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
3828 kHz, 18-10, 1740 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
3828 kHz, 19-10, 1534 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
5473 kHz, 20-10, 1152 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 21-10, 1910 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
5473 kHz, 20-10, 1152 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 21-10, 1910 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
5473 kHz, 23-10, 1309 UTC	ALFA-45 84 484 MAKAL'ShshIK 43 50 41 73
5473 kHz, 23-10, 1337 UTC	ALFA-45 97 112 PAGLINOK 08 87 77 78
3828 kHz, 23-10, 1408 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29 NEVKA-26
3828 kHz, 23-10, 1449 UTC	ALFA-45 70 155 DICIAN 61 16 68 71
3828 kHz, 23-10, 1458 UTC	ALFA-45 35 201 UPRAVDEL 27 60 26 56
3828 kHz, 23-10, 1518 UTC	ALFA-45 23 934 ALAJ 81 42 90 34
3828 kHz, 23-10, 1631 UTC	ALFA-45 21 077 MASIMA 94 00 53 65
5473 kHz, 24-10, 1216 UTC	ALFA-45 88 026 KYuRIT 47 78 47 77
3828 kHz, 25-10, 1518 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29 STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64
3828 kHz, 26-10, 1619 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 26-10, 2004 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64
5473 kHz, 27-10, 1400 UTC	ALFA-45 25 634 TEBERChNIK 85 78 78 34
5473 kHz, 27-10, 1434 UTC	ALFA-45 82 549 TARITAU 49 72 14 05
3828 kHz, 27-10, 1619 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29



V07

18074/15874/14374 kHz, 05-10, 0100/0120/01040 UTC

883 883 883 1 752 87
81415 97771 48900 04743 14343 11483 32303 88208 48203 32132
25174 73388 17931 82484 13889 53430 33951 27789 43534 12450
04737 08323 79130 88333 22150 93073 03709 94248 52333 84989
72120 30071 51721 52198 51758 72723 01138 28243 73017 91370
78084 81990 84359 34393 80129 95488 12729 17719 73244 52399
92130 93250 31344 91383 50830 22327 29574 54033 91318 83993
30530 70947 33392 58305 94890 91101 39878 23337 02953 54543
74152 18039 20008 73232 55297 87910 13330 02385 13805 33213
94091 00834 35304 27738 70155 24471 72582
000 000

18074/15874/14374 kHz, 26-10, 0100/0120/0140 UTC

883 883 883 1 243 67

49003 80554 74880 01811 04881 37787 22434 30343 13090 80980

87391 13728 33385 17204 53493 33155 95357 05753 34502 31712

19998 02453 93498 01590 73088 21247 53830 35170 19497 49577

74047 23383 34033 39800 09415 50737 91337 78752 42405 55310

45425 12449 73393 55181 18252 81303 72410 47303 74351 01372

81837 57120 49902 71174 94320 49579 43393 41298 41933 43253

30388 74519 54337 31488 88974 45737 01493

000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Frequencies: 7654, 7688, 8300, 9276, 9522, 9725, 10182, 10522, 11430, 13750, 15388 kHz

Schedules per 1 July 2014

13750 kHz 0200-0230 kHz New Star 1

13750 kHz 0300-0330 kHz New Star 1

8300 kHz 0500-0530 kHz New Star 3

8300 kHz 0600-0630 kHz New Star 3

15388 kHz 0700-0730 kHz New Star 4

15388 kHz 0800-0830 kHz New Star 4

9725 kHz 1200-1230 kHz New Star 4

9725 kHz 1300-1330 kHz New Star 4

Note: not all the skeds are always on the air



VC01 - Chinese Robot Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4165, 4175, 4180, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5114, 5195, 5232, 5288, 5303, 5328, 5330, 5343, 5393, 5592, 5700, 5742, 5799, 5802, 5820, 5832, 5892, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8046, 8170, 8779, 9000, 9129, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

MORSE STATIONS



MX

Russian Military beacons

Current cluster frequencies:

3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz

Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 4325.9, 5465.9 kHz (seldom reported these days)

W, R, L, K, Z 5835, 8112, 8162 kHz (Air Force)

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan



M01

M01c, 5247 kHz, 01-10

1605 UTC 52863 000
1607 UTC 111/13851 71513 85740 20159 02113 72170 59339 44570 08134 66932 000
1611 UTC 111/01249 21975 57991 38348 60768 55.86 43530 68926 36256 88250
76605 51859 55586 47197 75970 62580 77642 09433 67608 01089 000
000
3
1615 UTC 111/29718 13789 57827 68171 27218 99065 62830 49866 38962 65699 000 9
1617 UTC 111 = 09440 52545 93077 75965 608.. 10811 99595 11805 07321 0176 000
1618 UTC 0111 = 75965 000
1619 UTC 111 = 60868 000
111 = 93077 000 000

M01b, 3715//4570 kHz, 02-10, 1942 UTC. Note: 983 sent preamble, 984 in postamble

477 983 34
71355 91464 25383 15800 84329 ... 63302 20324 12642 30673 29943 = =
984 34 000.

M01b, 4605 kHz, 02-10, 1831 UTC. Note: 983 sent in preamble, 984 in postamble.

201 983 34
71355 91464 25383 15800 84329 ... 63302 20324 12642 30673 29943 = =
984 34 000

M01c, 7636 kHz, 06-10, 1106 UTC

111 000
134 134 134 111 000

M01, 5475 kHz, 23-10, 1800 UTC

463 703 30 =
87982 40140 16392 94091 91918 94705 35623 32275 46478 28756
51691 39292 13325 15736 78764 56811 59892 85374 34439 86602
14809 34408 07942 35006 57902 09058 74221 64703 91986 09296
= 703 30 000

M01, 5020 kHz, 23-10, 2000 UTC

463 371 30 =
33361 84351 78419 67494 55759 38918 38957 92567 81583 73428
79725 45360 56033 76723 80916 70045 60797 72741 00900 43237
74750 29754 66154 31605 78771 10564 14741 50018 86989 41755
= 371 30 000

M01, 5475 kHz, 28-10, 1800 UTC

463 103 30 =
54512 10720 32141 18694 39708 87009 43645 92441 54138 65018
41068 34285 51603 66603 03228 63183 37173 4 9942 546 39 51611
12435 69244 55487 78026 92791 16829 51543 14749 13347 60088
= 103 30 000

M01, 5020 kHz, 28-10, 2000 UTC

463 917 30 =
18106 36208 37262 62164 43728 21320 51781 29149 19402 46471
96461 38351 35125 63759 64892 48945 58939 63690 79423 16861
34753 62424 87683 25027 17861 70197 88581 63433 40707 77412
= 917 30 000

M01, 5475 kHz, 30-10, 1800 UTC

463 761 30 =

43477 62563 81813 01921 29018 71672 25579 92986 35193 88587
35746 92082 85438 32503 10100 08957 30131 50638 11426 05419
63749 77746 48736 51127 35398 05574 50487 91485 56138 07844
= 761 30 000



M03

13911 kHz, 03-10, 1420 UTC

876/37 =

71053 88477 65908 35161 87969 72575 33285 47616 65621 93178
89741 95239 07952 48818 28124 94719 78788 25283 24111 20433
91170 88816 52460 23887 88244 32822 76700 78655 36330 99207
24183 35197 42772 31079 20951 81668 83530 =
876/37 = rpt msg = 000

5463 kHz, 20-10, 1320 UTC

541/38 =

86466 79676 55167 75940 30051 58868 97968 94528 09975 92432
74329 56000 31505 78811 98086 19517 10223 08838 85528 51046
43140 57933 52485 13317 58266 91602 21261 70267 01047 83466
96502 05566 27071 72074 04780 71797 53602 67218
= rpt msg = 000



M12

Avare found a new M12 schedule on 22-10 at: 1130 UTC – 12206 kHz, 1150 UTC – 13559 kHz, 1210 kHz – 14728 kHz.
The speed on this sked is 20 WPM.

8047 kHz, 06-10, 1900 UTC

463 463 463 1 4327 55 4327 55

09283 32154 33279 98173 03194 09628 36510 09430 40232 74347
51908 00769 08156 90051 46222 88583 23795 96733 75967 23829
36193 02769 86682 62586 31994 36664 92394 26154 65126 50060
23158 45233 81713 25686 26366 19097 53500 05005 32914 01797
38498 36897 12894 11042 10196 33691 20682 54944 02851 71931
22137 30200 87457 69689 19988
000 000

5814/5214/4614 kHz, 08-10, 2100/2120/2140 UTC, 26 WPM

826 826 826 1 825 153 825 153
19118 65665 14397 32937 89484 45121 62123 45815 58284 67988
96014 72059 98013 24163 10267 90831 40357 00597 02495 30064
09233 53483 78017 50205 74268 60503 60693 43628 72472 78896
54722 20219 38356 76223 19900 54169 92134 92961 57040 85191
68710 42670 91681 94016 81301 19689 50467 19705 53034 68089
31018 41522 70033 41213 31517 54347 32462 73236 55451 71746
64861 28623 40054 16048 72412 03723 71029 46497 38461 93250
16123 84880 97315 03876 20256 79436 41339 49953 92618 54064
90436 33404 24308 70889 99121 25935 19390 19918 65910 16963
49935 81121 36023 30942 36939 83600 92539 49895 18971 92389
90466 95478 26517 10277 11858 86851 07700 27836 48709 71438
42086 50196 67333 94524 91380 23708 97823 04933 78143 14027
26912 40668 79375 12852 69791 28528 18008 73292 83191 18326
22624 18569 29080 48377 49393 58230 56372 45873 09591 72411
99691 56774 37618 40533 62315 07718 08068 23149 75356 75574
82674 70029 67273
000 000

10269/9269/7969 kHz, 08-10, 2110/2130/2150 UTC, 30 WPM

229 229 229 1 6864 167 6864 167
59917 49084 75637 33783 92540 12926 04263 64182 10893 11653
82759 39490 48555 26936 26284 40711 16847 65229 87868 54081
47448 33192 49969 25728 77448 74470 21412 22865 39375 31606
36033 71885 99067 89478 92093 34796 90978 73660 13384 98562
57431 38001 38821 82260 97013 06143 60005 12530 76373 35374
66652 89772 71971 84298 75405 84780 51051 52049 52599 59330
47470 62808 91582 30531 50541 48417 54793 25530 11156 12022
95375 53738 76016 89579 76390 52180 58960 76533 82864 96765
50663 19410 19643 28497 59565 91736 93336 83932 09386 82916
80257 17518 20826 60632 84922 58296 73175 98941 75986 04486
76550 83114 04578 01167 91027 45609 67376 42403 08491 62140
75239 50609 81472 90441 44308 14611 78930 52878 32025 51377
95017 91043 60810 52018 44342 08315 12129 85544 75275 28633
52354 26801 23922 17157 09599 36672 12494 57924 54182 95927
38104 69828 37455 62670 81899 90619 28528 54765 76622 97023
29158 04818 88506 49572 50431 61928 11000 60455 11866 52262
07757 83296 77343 32353 82790 65455 04825
000 000

11435/10598/9327kHz, 20-10, 1600/1620/1640 UTC

938 1 5892 120
61915 21105 81185 55988 80888 95382 68549 48969 48462 69876
20336 64188 46229 36129 41753 07374 45725 12513 09098 75081
55286 82909 75055 88992 44986 80987 58449 62117 54194 42102
11695 96919 27134 47650 03657 53088 38054 38344 58062 86344
06564 04179 71899 12784 49017 44102 63385 81764 80263 35630
35049 99123 48263 65869 59892 59964 90886 03994 23715 26209
85325 97756 49706 79054 23450 62110 06410 17974 67093 70962
26059 56140 73307 30565 37097 59095 46474 47236 58667 86026
91319 51867 88223 34569 49001 43594 53067 83228 11355 72833
75203 06955 79034 72141 99995 55661 23544 11754 63145 16925
03271 70279 17138 61339 96204 96185 10900 04480 21536 69008
20724 75081 23724 64364 75753 73289 74964 00515 11428 89900
000 000

8047/6802/5788 kHz, 20-10, 1700/1720/1740 UTC

463 1 8334 144

98026 59758 93834 15196 71192 00893 6 5696 720 55 69878 06549
90893 86606 26342 28435 40513 31518 36656 84453 95547 77019
95857 92849 93994 30194 95383 00871 34555 01172 66462 27550
42983 77279 05736 34199 50226 04552 24309 86384 19749 23478
36764 36948 08199 00884 83583 81737 98354 22933 71460 00804
19921 52780 08419 27312 98888 99132 95288 68865 12651 36232
88068 41325 75865 03146 60364 96745 86489 07836 90841 79483
79786 25691 42706 33645 35920 56979 33429 44297 69294 89019
50251 61185 71032 71385 24278 67501 66907 64302 42624 67487
24966 33449 55947 61662 58381 08186 68436 11181 40899 63306
69708 87315 42815 40098 36060 31010 65640 97246 42658 74791
15165 95417 07572 30042 79524 26919 03340 92354 47438 95320
23657 49376 97580 72345 93343 25246 10313 29100 65714 36027
97012 74212 90318 60936 68926 25911 17871 42670 51893 28280
04528 06954 34736 38483
000 000

10343/9264/8116 kHz, 23-10, 1800/182z/1840 UTC

124 1 4780 108

35893 77718 56421 61775 83285 56890 87999 34918 65557 84443
91189 40505 40403 90787 70830 91814 38888 13001 10572 70014
34395 40053 85381 10137 84068 53263 36913 70245 24342 44185
62338 26472 33155 75382 35687 35613 84804 80176 09840 40338
06356 87154 17726 78911 35651 86939 71905 98948 01888 96040
46390 70533 25422 52878 18507 20873 92303 90369 37262 21716
79504 65845 72840 26400 58745 69052 69410 47592 98217 84309
55483 43062 69731 17005 23202 56717 39443 17465 85270 82293
44406 32088 83090 24315 19686 16112 60027 70313 64916 07315
31761 52090 27129 22691 24288 11925 5 2888 94578 58897 41021
43852 56589 22254 20471 78180 63757 34039 06727
000 000

10343/9264/8116 kHz, 28-10, 1930/1950/2010 UTC

124 1 4067 59

10517 23955 73860 91520 92031 16896 12926 68992 40923 52028
29991 64327 41826 89021 15250 24142 54556 95805 45030 13526
41131 54276 22265 99459 22812 02913 95148 76952 88849 34343
95112 26889 92148 98756 17065 67183 65691 78392 75166 01915
19676 15524 74044 70626 82280 14285 37262 81795 84760 39099
65557 38798 81453 22085 32051 17744 62487 63525 37371
000 000

11491 kHz, 30-10, 1740 UTC

725 1 7739 111 7739 111

98453 71947 49386 79995 28679 60758 85719 78618 82613 87988
55716 55797 44139 94656 97966 61335 85521 13210 36854 19925
40296 04625 87690 19395 77332 79488 93662 50441 46231 23930
40095 05250 29302 24246 44211 75361 84245 35176 81790 22913
48897 86401 82528 10127 56142 79642 45752 64129 38688 99981
43039 79669 94075 31440 67776 74383 90903 33170 45562 86241
14347 89133 25270 65072 65432 38703 67210 86274 52103 67519
76286 99514 38627 31581 44292 83270 12453 14523 14520 90268
53109 87573 65136 19707 43000 82339 75844 29211 20058 47741
39963 43772 31081 22594 66753 44605 39922 72466 72967 45994
87370 23964 41189 47962 41793 34663 75680 22712 89587 00888
30266 000 000



M14

5947 kHz, 14-10, 1820 UTC

346 752 020
44108 38962 04169 25742 58457 96892 92665 91221 97442 52207
69143 30172 87088 13167 83155 41364 18451 28305 68131 82828
346 752 020 00000

5463 kHz, 15-10, 1920 UTC

537 621 020
51059 23438 76167 25680 94045 26295 92184 44625 57552 67851
95578 17869 75794 68461 80694 32456 21369 84274 96823 17105
385 020 00000

18041 kHz, 16-10, 0500 UTC

952 861 55
54724 39527 63510 92767 58245 69017 01938 97503 33505 46100
05639 79218 17004 32652 55841 78296 56928 75920 95403 17112
80547 64282 01344 31417 94918 49505 89887 64330 00577 33942
46225 83861 22899 46119 96157 09909 90836 53125 61826 61660
17692 83266 68720 61350 63637 57404 96126 55299 84662 52430
88237 38173 97627 45298 68084
861 55 00000

5945.5 kHz, 17-10, 1700 UTC

382 382 382 00000

18041 kHz, 20-10, 0500 UTC

952 847 60 =
46817 73164 10308 33538 14626 56593 33260 96776 70358 18796
91173 66829 53046 44261 28144 47460 72892 15915 93348 32287
11633 85672 37550 06044 22603 43522 02268 09225 47696 71085
31327 14541 93413 90585 59447 88633 33174 45160 57576 37478
28083 71468 39641 58918 83348 50510 60424 50766 82530 47612
59231 47900 66802 77510 29049 86815 51428 55464 15883 21047
= 847 60 00000

10212 kHz, 21-10, 1301 UTC

636 (R) 748 748 50 50 = =
58556 84577 68565 18783 50575 84673 13875 93584 86458 76471
49917 34753 75496 29744 17140 77408 32730 91835 87979 37330
79990 61628 80457 977.. 73216 94859 28508 79322 48220 01722
13737 18534 02106 22689 88287 99923 52513 93497 43517 18625
41886 35231 04152 69824 78946 30434 52620 89184 34560 71205
= = 748 748 50 50 00000



M24

7664/6794 kHz, 20-10, 2000/2030 UTC

381 957 103 =

40115 35657 34403 45258 69856 92922 75933 90938 98446 87100
 54416 78630 99915 42606 38284 57313 28225 49544 54505 19026
 04574 93953 08544 42433 54006 34633 37236 00956 64786 93732
 30515 15126 68954 53310 82914 53883 67520 75022 60803 14467
 48713 85156 96269 35624 72747 92172 43615 23797 21519 28967
 59376 96991 36686 37014 91817 76002 94567 34599 90841 77697
 91290 36320 74239 9003 2 36635 16046 11231 33499 80000 30518
 09227 38678 16944 45783 14749 94598 49723 33649 64450 47589
 00277 30346 47169 55292 99085 74581 62956 25556 98349 67174
 90012 94866 82919 19467 95473 26025 77421 82688 50979 29747
 73005 75459 38966
 = 957 103 00000

Danix checked the older M24 transmissions and discovered that there is a regular M24 schedule on the 1st and 3rd Monday of the month at 2000 and 2030 UTC (from November to March, at 1900 and 1930), which repeats the following Tuesdays at 0500 and 0530 UTC (from November to March, 0400 and 0430). The Tuesday repeats are on the same frequencies as on Monday. Odd that they shift one hour backward for winter, rather than forward.



M89

Chinese military

Roundslips and callsigns

V A7TR A7TR A7TR DE DI9Q DI9Q
 V 5RAB 5RAB 5RAB DE M9AB M9AB
 V 7NPE 7NPE 7NPE DE QV5B QV5B
 V 6TRW 6TRW 6TRW DE J9NS J9NS
 V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty transmission)
 V 8CPZ 8CPZ 8CPZ DE XW6W XW6W
 V 8DKB 8DKB 8DKB DE ODY8 ODY8
 V 8PEX 8PEX 8PEX DE TISF TISF
 V BNGC BNGC BNGC DE XSV85 XSV85
 V BIQ9 BIQ9 BIQ9 DE ISL2 ISL2
 V BRH0 BRH0 BRH0 DE 8NGG 8NGG
 V CQ CQ CQ DE DP91 DP91
 V DKG6 DKG6 DKG6 DE 3A7D 3A7D
 V DP9J DP9J DP9J DE CQ CQ
 V EI0B EI0B EI0B DE JHG2 JHG2
 V GKLO GKLO GKLO DE TYUI TYUI
 V GKN7 GKN7 HKN7 DE F3J5 F3J5
 V H2FL H2FL H2FL DE DRV8 DRV8
 V JKDJ JKDJ JKDJ DE SLBC SLBC
 V M8JF M8JF M8JF DE RIS9 RIS9
 V MW3D MW3D MW3D DE 2SLC 2SLC
 V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491
 V PGG9 PGG9 PGG9 DE MI6Y MI6Y
 V RA5J RA5J RA5J DE BP2S BP2S
 V RXP7 RXP7 RXP7 DE CZT2 CZT2
 V S2LZ S2LZ S2LZ DE YBA6YBA6
 V SR3H SR3H SR3H DE FGH8 FGH8
 V SXL6 SXL6 SXL6 DE 9QFZ 9QFZ
 V TKLO TKLO THLO DE TYUI TYUI
 V TY9D TY9D TY9D DE EOX2 EPX2
 V VTX7 VTX7 VTX7 DE TZ7B TZ7B

V VXL1 VXL1 VXL1 DE XIW2 XIW2
 V WZG6 WZG6 WZG6 DE 4VTG 4VTG
 V YUQW YUQW YUQW DE ASDF ASDF
 V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0
 V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491
 V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP
 V QHV8 QHV8 QHV8 DE 8QPP 8QPP
 VVV Q2M Q2M Q2M DE NYZ NYZ

Note: RIS9 is active on 3777, 4532, 6793 and 8060 kHz on both daytime and night time frequencies at the same time!

PL2R DE 00MD
 HU4S DE 00MD
 BSGE DE 00MD
 28SD DE 00MD
 E8BK DE 00MD
 Y5E2 DE 00MD
 YIJO DE 00MD
 SKNI DE 00MD
 U8SD DE 00MD
 VCDF DE RTJH
 K4YM DE GD9L
 TFBJ DE GRV5
 HPNO DE GN3Y
 GN7S DE GN3Y
 ONNU DE GN3Y
 RJ8T DE GN3Y
 DLPO DE GN3Y
 OGOU DE GN3Y

GK0Y DE GN3Y
 VRHY DE Y3XJ
 CO8Q DE 8KSU

CWI2
 4XPB
 7Q1M
 KPWI
 RCVM
 IVW8
 CAA4
 NUMA
 7X6G
 CAA4
 NUWA
 SAS8
 NV8N
 OBSG
 RVVD
 CAA4
 LM9K
 5DMY
 CL7W

Messages:

8073 kHz, 06-10, 1148 UTC

4ANNN343547443D3DTTU4 (Cont'd)
? 3564 T3NN 3447 46D3 D54D
734T3NN344647443D3D54DT4D.
7733573734T3NN343647443D 3D54DT4D5TU6
773353III =
3734 NNN3446IEN? 3D34 DT4D 6.
7773 3573744..

3777/ /4532/ /6793/ /8060 kHz, 10-10, 1006 UTC, i.p.

VV CWI2 K
C.. QSA 2 K
R QSA 2 NIL SK
R OK ...
VV 4XPB K
R R DE 7Q1M QSA 2 K
R QSA 2 NIL VA
R OK NIL VA PSE
VV KPWI K
DE RCV M QSA 2 K
R QSA 2 NIL VA
R OK NIL VA PSE
VV IVW8 K. VV IVW8 K. VV IVW8 K
VV CAA4 K. VV CAA4 K
VV NUMA K
VV IVW8 K
R DE 7X6G QSA 2 K
R QSA 2 NIL VA
R OK NIL VA PSE
VV CAA4 K K
NIL OT QSA 3 K
R QSA 2 NIL VA
OK NIL VA PSE
VV NUWA K
NR DE SAS8 QSA 2 K
R QSA 3 NIL VA
NIL VA PSE
Back to the roundslip V M8JF DE RIS9
CQ QSY NR 9 (x3) (Sent by another very loud station - 1023z)

4000 kHz, 14-10, 1221 UTC

IIAB4 I 0A90WWWW WU 0W UF INDD N0AWUG TS S DDD B BD D
1DYP4K6 BBB FG F XSFV XSF85 PS 9 QV EEEE F 9835745 01038353 9587304
XTUP 4PI GJPK I A9IG GJTB HGU V H2A8 HJ , 6 NEHI HI 5 5 5 5
HI EIII IVWS BFFJ D8KTY4A R
PKB. 9GGJT6SGUVH2A8HJPW FM
0A90WWWWWUOWUFINDDNOAWUGTSSDDDBBD.K
DNU DB7A7473757U2T87 E
TDTA7AD47TNU470T373D4DUT4T37UD4TAD7U074DD3573N4N3N
7757.7
7575
77574N.7A748547A9D35755TAT3D44XTFPG1PKIA9GJT6.U3 2A8H1PW5H...
HJP5HJPWJDYPVKBIP2K4SPEJR07E3EE H07IREEE PEJ TFY
NNNNNNNNNN NVNFFXSVF8
FXSF TTTTTT NTTTTDD TTDDDD VA F TF XSF85 WS9 QFHRWQ3XTFPG1PK
NA9GGJ T6SG UV.2A8 E VV .7 S E S 475ES
FM CQ 485 QFVGFK.VGRDREVWHLFFJDT=YVIRIJH4 EFGVWFJX..VVKP1P5
PP.BDTEHFV
I AR ISS BZG40 E
187 4IGI J54EFG4GFP =
C757575930410192828057574757967584957203757495717485037198356
4.0103OE

5801//10180 kHz, 15-10, 1047 UTC

III BU36 DNUN U3N3 D73A (Cont'd)
III 76N3 DT5A U4DA D47U (Cont'd)
III TU6T (Return to roundslip)

5555 kHz, 09-10, 1201 UTC

R R 7G 7G NR WEEE
7G 7G NR 0../CCK CK .0 600904 .100 RMKS .0153 TO 505..5373 TO A8260.5013 K
K
T3.3 TA5U AT3N 537N T44N S? ? T447 DTAN N45A DUAT TD34 N5AT 5367 (Cont'd)
K K RRR 7G 7G NR
R GA

8073 kHz, 10-10, 1153 UTC

3D34 DT 4D6TUNN34T33773357 373 4T3 C 3435 4744 3D3D TTTU 4DT4 D547 6
AR AR
A HR 7G GA
NR NR 0780 CK 41 35 10 10 1609 == =
KTN5U TATN 53 D N547 TTTA 4746 7T57 7TDN 37T7 TAU773 TA77 (Cont'd)
AR AR AR (Switched to voice)

8060 kHz, 11-10, 1014 UTC

NUA 7A4T 5734 6A7U UAD6 76NU (Cont'd)
(Weak station sending in background - appears to be RIS9)
III = D35T 6N3A TAN6 T3D3 (Cont'd)
III = 3447 3.74 .A6T3 UTA3 (Cont'd)
III = NT76 63UT N4T4 N7AT (Cont'd)
AR
R 24W =
67DT 67DT AR
R R 33W BT 6TU6 6TU6 AR (Cont'd repeat groups)
R U MSG GA (Other station not on this frequency)

3777//4532 kHz, 10-10, 1847 UTC

V M8JF M8JF M8JF DE RIS9 RIS9
UGT COMM = 328/1335/1585/10/11/0320/590/A/57/97 AR
UGT COMM = 328/1335/1585/10/11/0320/590/A/57/97 AR
UGT COMM = 328/1335/1585/10/11/0320/590/A/57/97 AR
V M8JF M8JF M8JF DE RIS9 RIS9

3845 kHz, 14-10, 1130 UTC

DDNN TT43 5A7N 37U3 5T3 ? 5T36 NN74 7D45 (Cont'd)
III III III 3WG == =
7UN. 7.DU 53N3 DAA5 6DAT (Cont'd)

4532 kHz, 14-10, 1102 UTC

8 OBS = =
3DT.4 3.6TA 5DT5T D ? DA65T TTUT3 ATTNU UTANN N3U6T AR K
R NIL K
OK NVA PSE
VV NV8N OBSG K
DE RVVD K
R OBSG K
R R OK 75? 3DA7 4TAU = 57T5T TTUA4 ATAA5 UTANU N3U5U AR K
R NIL VA
R .. VA PSE
VV KI EEEEE VV KP.M HOB5 GA K
DE R.UM SEEE K
R OBSG K
NR OBS = 3D53U 3T4T3 56T5T 7363 7TTUA4 ATA43 UTADN N3U6A AR K
R RPT 3W K
NR RPT 3W = = 56T5T AR K (Short messages being sent consist of 5 groups)
R NIL VA K. R NIL PSE (RIS9 Sending R/S in background)
VV CAA4 K
NR NIHEOTK
R OBSG K
NR = 36A.4 TTNTU 56T5T TTU3 TATA7 TUTA77N3U5U AR K
R NIL VA
OK NIL K PSE (1108z - Silent)

5110 kHz, 14-10, 1135 UTC

/41/11 =EEEE = 0OEEEE =
071/C991/6918/97/41/11/9EEEE
071/C991/6EEEEEE =
071/C991/6919EEEEEE =
071/C991/6918/97/41/11/949/COMM/8839 AR
HR SVC EEEEE
HR SVC GA HR SVC GA =
071/C991/6918/97/41/11/949/COMM/8839 AR
HR NR 3020 HR NR 3020 NIL EEEE NIL SK GB

5383 kHz, 15-10, 1017 UTC

AR QSL ? K
VV VCDF DE RTJH K
R QSA 2 K
R RPT 99W A76T A76T K
R R AR EEEEE R RPT 99W A76T A76T K
R HR NR 004.. K
NIL SK
VV B.. DE RTJ. K
R QSA 2 K
R .. 0460 K
R HR N...
VV ZA4. DE RTJ. K

5555 kHz, 15-10, 1102 UTC

K4YM DE GD9L QSA 2
MSG GA PSE CY
R MSG
NIL SK
GB
SK
GB
T45D X.. ZZ MSG NR 1.3. CK .. 1. 5.10 10 7EEEE
NR 143/CCK CK 199 59 1510 0757 RMKS = 1.24 TO
1464/1.9./246/1414/1...TO 1424 AR
NR 143/CCK CK 199 59 1010 0757 RMKS = .42 TGO
1462/.49../1426/1414/454. AR K
NR .. RPT K
RTP 2375 MSG GA PSE CY HW
NR 143 M/ /////
SVV EE... VV K4YM
VV YMKH
VV K4YM ...

8212 kHz, 15-10, 0224 UTC

MSG NR 0650 CK 200 EX 1015 1025 = (Sending letter O for zero)
OK GA GA (Other station also on this frequency)
B T B T = = = =
TTTA NUT5 NNN6 TU6U TTTA T556 NA74 TTT4 T3U4 TUA4 N574 (Cont'd)
AR AR W W W 19W 19W 19W = = = TA33 TA33 W
21W 21W = = T6N4 T6N4 W (0233z - Cont'd repeat groups)
OK QSL QSL 1036 OK QSL 1036
NIL NIL SK SK GB GB

4325 kHz, 17-10, 1351 UTC

U7D3 A3N3 3637 5T65 DN4N 4N34 (Cont'd)
III 3P GA = =
TN74 4UNU D4D4 43N3 TA65 UT6T (Cont'd)

4532 kHz, 17-10, 1124 UTC

/10/17/1.55/555/A/.97 AR
UGT COMM = 328/1008/1585/10/17/1955/555/A/57/97 AR
UGT COMM = 328/1008/1585/10/17/1955/555/A/57/97 AR

5381 kHz, 15-10, 0947 UTC

R RPT 14W = 6TT5 6TT5 AR K
QSL 1746 K. R QSL 1746 K
NIL VA
VV PLW EEE VV PL2R DE 00MD K
VV HU4S DE 00MD K
R QSA 2 K
R QSL 1747 K
NIL VA
VV BSGE DE 00MD K
R QSL 2 K
R R RPT 14 REEEEE R R RPT 14W = 6TT5 =T5 AR K
R QSL 1748 K. R QSL 1748 K
R NIL VA
VV 28SD DE 00MD K
VV E8BK DE 00MD K
R QSA 2 K
R R RPT 1730 K
R RPT PEEEE R RPT PBL NR 015/EX CK 99 56 1015 1730 K
R RPT 23W = N73N N73N AR K
R RPT 33W = ADDU ADDU AR K
R RPT 89W = A7UA A7UA AR K
R QSL EEEE R QSL 1752 K
NIL VA
VV Y5E2 DE 00MD K
R QSA 2 K
R RPT 68W = U6T5 U6T5 AR K
R RPT 68W = U6T5 U6T5 AR K
R RPT 87W = 35D6 35D6 AR K
R RPT 88W = NA3N NA3N AR K
1733 K
NIL VA
VV BPE8 EEEE
VV BPEN EEEEEEE
VV BPE7 DE 00MD K
R QSA 2 K
R QSL 1801 K. R QSL 1801 K
NIL VA
VV YIJO DE 00MD K
R QSA 2 K
R RPT PBL NR 015/EX CK 99 56 1015 1730 K
R RPT PBL NR 015/EX CK 99 56 1015 1730 K
R QSL 1803 K
NIL VA
VV SKNI DE 00MD K
R QSA 2 K
R QSL 1805 K
NIL VA
VV PL2R DE 00MD K
VV HU4S DE 00MD K
VV AEEEE VV U8SD DE 00MD K
R QSA 2 K
R QSL 1750 K. R QSL 1750 K
U7G GA K
U MSG GA K

6575 kHz, 15-10, 0206 UTC

CQ (x3) DE DP91 (x2) V (Cont'd)
PSE SPE F O F LD TO HR AHR NIL SK GB
PSE O LL TO HR NAHR NV SK GB
PSE F O F IL TO HR NHR NIL SK GB
PSE M F O F LL TO
PSE F OF LL TO HR AHR NIL SK GB (0210z - Silent)

5535 kHz, 17-10, 1340 UTC

N3UU 4DUN 477A U37D A6U5 (Cont'd)
III III = = =
A37A AA46 U653 5N56 NN77 D747 UND4 577N (Cont'd)

5220 kHz, 17-10, 1329 UTC

A343 3D4D 365D T6NT UD6D (Cont'd)
R QSL 2135 K
GA
7G NR /2III 38 CK 1.1 CLS 24 2100 K
NR NR 38 CK 101 CLS 24 2100 K
R GA
RMKS QSJ 6400 TO 6380/6340 AR K
R GA = =
T4TD T455 557T D5N5 5TDN (Cont'd)

5325 kHz, 17-10, 1315 UTC

OK OK 1 K
R 7G GA
= = 37N4 6..7 7A3D 5NA6 DU4N T46A A57U (Cont'd)
0566
05 05 (Long zero)
6NU3 D405 763D 05
VRHY DE Y3XJ K
OK OK ..
R QSA 3
OK OK
QA3EEEE QSA 3 QSA 3
OK OK
QSA 3 U QSA U QSA ?
OK QSA 2
OK OK IEC = = 4799 EEEEE
IEC = = 521N EEEEE IEC = 5216 K. IEC = 5216 K
OK ... IEC = 973
OK OK HR 7G GA
OK OK = = =
NR 959/NNNK NNK 499 NNR EEEEE NNLS77 1017 W EEEEE TIME 2125 RMKS
7649 TO 7954 III RK
RPT CK
OK OK NNK 499
OK OK R7G GA
OK OK
= = DA56 A4DN U5NT T37D 36TA 5DU3 (Cont'd)

8082 kHz, 17-10, 0221 UTC

7UN5 5..7 N3N. AU3U D534 (Cont'd)
III CK CK..
GA
7G NR OIII C K
7G NR 030 CK 20 .. IIIC82 1017 1024 K
GA
R = T4UU UU UDDU 53TD U5UT (Cont'd)

5351 kHz, 17-10, 1303 UTC

563U 4UAA 3T4U 3T5A (Cont'd) AR
5DMY K
R 01W = EEEEE = 5T73 5T73 AR K (Cont'd repeating groups)
LM9K K
R AS
5DMY K
R GA K

5588 kHz, 22-10, 1035 UTC

III = ATN4 65UT A4U5 6TNU U73T (Cont'd)
III = U6D4 U.NT ANDN DTA3 76AT D635 (Cont'd)
III = 3TU6
MSG NR 088 CK 301 41 1022 1830 =
4T.6 757T ND.. AU7U UNUT .3DA U.. (Cont'd)
III = ATN4 65UT A4U5 6TNU U73T (Cont'd)
III = U6D4 U7.. TNDN DTA3 76AT D635 (Cont'd)
III = 3TU6
V MW3D DE 2SLC

5313 kHz, 17-10, 1102 UTC

TFBJ DE GRV5 V
TFBJ DE GRV5 K
MSG NR 207 CK 65 30 1017 1900 =
MSG NR 2005 CK 65 30 1017 1900 =
MSG NR 20. CK 65 30 1017 1900 =
NU4T 7AD5 4TA6 3D3U ATU. (Cont'd)
AR (Calling stations, but mostly unreadable)
NR SK
HPNO DE GN3Y K (Changed his callsign)
QSL 191 QSL 1910
GN7S DE GN3Y K
... QSL 19.. K
NR SK
ONNU DE GN3Y K
RJ8T DE GN3Y K
NR SK
DLPO DE GN3Y K
... QSL 1910 K
NR SK
OGOU DE GN3Y K
GK0Y DE GN3Y K
NR SK (1112z - Silent)

5325 kHz, 17-10, 1406 UTC

673N TA75 NT64 7TA4 NU36 T347 DAU5 (Cont'd)
OK PSE RPT .
= = 5A.N D4AU E ? N5U3 74T5 T63. (Cont'd)
AS AS
= ADU6 UN37 N7DT (Cont'd)
III
OK OK GA
05 = = (Long zero)
T67D 3NTA 4TAU UDNT 5AU3 7345 (Cont'd)

8888 kHz, 20-10, 0926 UTC

U74U 5UD6 U74U AU7U ADNN 4DD5 4NU3 DN6N D5UT 3UA3 UUT3 7TND
7N53 3UUD (Cont'd)
VVVVVVVV VV CO8Q DE 8KSU K
HR QSA 2
23555555555555555555 3X333344444444443F EEEEEEEEEEE 55 EEEEE
K QSL 1645
3333 NND6 A537 6T4A UUU5 U6UU 465T A7T5 6TN4 UUU5 UUUU ANT7
UT5N 77U3 7D55 (Cont'd)
VVV EEEEEEEEEEEEE 7OEEEEEEE R R DE CL7W K K
R HR QSA 2 K
R = 8594 AR K (Probably IEC Group for exercise)
VGOVVV VVVVVV FU365T AN7
R HR NR NOT K
UI
HR F GA (The F is sent more like a Barred E - This letter is also used by DP91)
HR F GN
R GA K R
NR 2. 94103 0142 0? 922 TO 9256 K =
UT59 TU.. (Cont'd - Just off frequency - Not part of this net)
R K K K R R R R U QSY TO NR 10 K
U QSY TO NR 06 U QSY TO NR 06 U QSY TO NR 06 K
U QSY TO NR 06 K U QSY TO NR 06 K
VV FP7W DE 8KSU K (Uses a different callsign each time)
AGN
R HR QSA AGN QSA 2 K
IE AGN R IEC = .AGN IEC = 2729
VV F344443 = 6..66 = X X X XX A803 54
3333 44
NR 80 CK 91 ..9. 0202 (From station off frequency)

6666 kHz, 24-10, 1414 UTC

7335 N44N 6740 3AU5 T435 45A6 DN6U (Cont'd)
R 3P RPT 22W = A657 AR (Cont'd to repeat groups)
R R U QSY TO/15 UQSY TO/15
K R U MSG GA K
R R U 7G GA K AS
GA

8888 kHz, 25-10, 1704 UTC

= ..U7 UND7 3U45 DTUA 43A6 DAT6
= QSW K TGUD SO ZR EEEEEZ/ Q= EEEEE T EEEEE
YFHR PWIR FIGN VMZO LRYD HQBI E OFG QPBP HS
WIEEEEE N D
YHE
HT .YSFNGIYLURJTDHZOAMVKGUZX HS GUZK QNS
ST D CL4 VY TL QSWX HS QIM ET
NE DT DE TV

6666 kHz, 28-10, 1632 UTC

LF NR OEEEE
FF NR 085/EX 0030 RMKS 1234 TO 2971 ==
(F letter sent almost like a barred E letter)
BKBM2/ABEEEE
FF NR 085/EX 0030 RMKS 1234 TO 2971 ==
BKBM2/ABYK2 AR K
NR UEEEE R GA K
N

3330 kHz, 26-10, 1607 UTC

V MW3D DE 2SLC
III U6.. U7NT AN.N DTA3 76AT D635 73UT 4675 TT5U TTT3 (Cont'd)
III 3TU6
MSG NR 105 CK 301 44 1027 0000 =
4T36 757T ND65 AU7U UNUT N3DA U5A3 T4TN TTT5 TTTA 3NT4 (Cont'd)
III = ATN4 65UT A4U5 6TNU U73T TN6U UD7A (Cont'd)
III U6D4 U7NT ANDN DTA3 (Cont'd)
III 3TU6
V MW3D DE 2SLC

3330 kHz, 28-10, 1615 UTC

V MW3D DE 2SLC
Very fast CW - Running a lot of the groups together
UN4U 367T D57N U65D 35NT TAD5 D45T (Cont'd)
III DN3A ND53 DA6T UND4 (Cont'd)
III . 547 TN64 UDNA (Cont'd)
III ND3T AR (Appears to be one of the many training messages previously sent)
V MW3D DE 2SLC

10192 kHz, 31-10, 1332 UTC

AR K
R RPT 1W K. R RPT 1W 64DT 64DT K
R R RPT 54W K (Cont'd repeat groups)
R QSL 213. K
RNR 00130 K
HR WK NR 09. =
R HR WK NR 090 = KEEEE R R HR WK NR 0906 K
R HR NIL SK. R HR NIL SK



UM01

Unid CQ station

3580 kHz

15-10, 0943 UTC	CQ P 4
16-10, 2222 UTC	CQ P 1
17-10, 0230 UTC	CQ P 0
17-10, 1045 UTC	CQ M 0
17-10, 1131 UTC	CQ M 1
17-10, 1344 UTC	CQ M 1
17-10, 1425 UTC	CQ M 1
17-10, 1900 UTC	CQ M 3
17-10, 1913 UTC	CQ M 4
18-10, 0810 UTC	CQ P 2
18-10, 0823 UTC	CQ P 1
31-10, 0138 UTC	CQ P 0



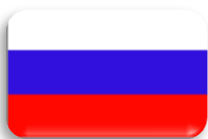
UM10

Unid 10-minutes net

3860 kHz, 17-10, 1348 UTC: KTR4
3207 kHz, 17-10, 1348 UTC: KTR4

VARIOUS MODES

M42 & X06



Modes:

Various digital modes, CW,
Tones (Мазелка / Mazielka)

Russian Government & Intelligence



16320 kHz, 10-10, 0150 UTC, FSK 200/1000

Link ID 26732 Msg Number 000 : Msg Type 13438 : Group Count (?) 0 16384 00768 00001 03688 26903 02568 00257 28765
Link ID 13366 Msg Number 000 : Msg Type 13366 : Group Count (?) 0 16384 00000 00000 03900 15391 03980 00257 14463
Link ID 13366 Msg Number 000 : Msg Type 31806 : Group Count (?) 0 49152 00000 00000 01852 15371 03468 00000 14382
Link ID 13366 Msg Number 000 : Msg Type 13366 : Group Count (?) 0 16384 00000 32768 01852 15371 03468 00000 14382
Link ID 57466 Msg Number 099 : Msg Type 07145 : Group Count (?) 245 32768 30527 63256 62999 29878 02019 37282 10404
Link ID 32826 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32768 30518 62232 12823 21686 02019 37282 10404
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32768 30518 62232 12823 21686 02019 37282 10404
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32768 30518 62232 12823 21694 02047 37366 10477
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32832 30518 62232 12823 21686 02019 37282 10404
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 247 32768 32566 62232 12823 21686 02019 37282 10404
Link ID 41086 Msg Number 103 : Msg Type 07145 : Group Count (?) 245 32768 30518 63288 13887 63540 05826 45312 24576
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32768 30518 62232 12823 21759 02039 37366 10493

14880 kHz, 10-10, 0230 UTC, FSK 200/1000

Link ID 13362 Msg Number 000 : Msg Type 13366 : Group Count (?) 0 16384 00000 00000 01812 07179 03470 00001 06206
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32768 30518 62232 12823 21686 02019 37282 10404
Link ID 41018 Msg Number 035 : Msg Type 07145 : Group Count (?) 245 32768 30518 62232 12823 21686 02019 37282 10404
Link ID 00058 Msg Number 035 : Msg Type 07144 : Group Count (?) 245 32768 30482 04888 12823 21686 02019 37282 10404

20608 kHz, 28-10, 1350 UTC, FSK 200/1000

Link ID 13876 Msg Number 067 : Msg Type 13364 : Group Count (?) 52 25411 17251 13366 17981 16136 28222 15371 40889
Link ID 65535 Msg Number 255 : Msg Type 13364 : Group Count (?) 52 25411 17263 65535 65535 65535 65535 65535 65535
Link ID 32799 Msg Number 087 : Msg Type 07145 : Group Count (?) 252 44212 45513 40005 33571 14796 33083 03042 22245

16325 kHz, 28-10, 1420 UTC, FSK 200/1000

Link ID 32799 Msg Number 087 : Msg Type 07145 : Group Count (?) 252 44212 45513 40005 33571 14796 33083 03042 22245
Link ID 32799 Msg Number 095 : Msg Type 07145 : Group Count (?) 252 44212 45513 40015 33579 48622 51519 04091 32759

10200 kHz, 21-10, 1251 UTC, CW + Baudot 50/500

QSA NO QSY 81944 QSY 81944 K
QSA NO QSY 81944 K (Cont'd)
NIL SK
NT9P NT9P NT9P DE K4MT K4MT QSA 3 QSA ? K
QTC 1 ZCZ K
(Into Baudot 50/500 traffic and back to CW)
QTC 1
RPT K
OK QSW 93454 K

FSK 200/1000 sample:

Block No 0 : Total Message Size 38 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,40,00,a0,00,10,00,00,00,00,00,20,08,00,0e,00,0d,30,0f,e0,04,e0,07,60,0c,e0,05,90,06

Block No 1 : Link ID 32799 : 23rd of month : Msg Number 087 : Msg Type 07145 : Group Count (?) 252

44212 45513 40005 33571 14796 33083 03042 22245

7d,12,b0,e6,00,33,1a,fb,bc,c1,eb,fc,94,29,8e,98,06,c3,15,42,f7,53,38,05,91,b6,c3,ee,cb,25,4f,0a,43,d2,05,5c

Block No 2

7d,12,b0,e6,00,55,fa,94,95,a6,a7,ad,13,d4,ab,80,9c,e5,8c,40,ec,d5,df,82,31,b0,72,8a,cd,40,b2,12,c2,94,c3,81

Block No 3

7d,12,b0,e6,00,66,34,bf,0c,c9,9e,de,99,61,10,06,e5,b1,0c,5a,b8,34,b7,19,22,db,89,f6,26,18,9d,9d,b7,a7,96,6b

Block No 4

7d,12,b0,e6,00,99,e0,b1,e6,5a,d3,fc,39,49,02,08,9a,18,a5,07,81,65,84,54,1b,ca,10,91,84,1b,30,d7,d3,ee,cd,c3

Block No 5

7d,12,b0,e6,00,aa,87,b5,1c,9d,56,27,96,c2,1d,44,9b,05,84,4d,0d,87,b6,98,c5,2f,54,f8,5f,2a,4c,3e,66,00,69,be

Block No 6

7d,12,b0,e6,00,cc,e9,d8,de,8a,ad,ac,f4,d2,2f,85,c4,42,74,b3,e1,b3,89,55,6f,5b,f9,90,24,e9,c6,2f,4c,bb,88,0a

Block No 7

7d,12,b0,e6,00,ff,f0,ae,82,ce,83,fa,f1,08,09,39,63,0b,25,c7,20,8d,7a,28,1f,d2,6d,31,d8,ce,c4,3a,d6,a2,8a,ac

Block No 8

7d,12,b0,e6,01,16,e3,61,d1,97,ef,56,ca,89,17,e6,ca,7c,6c,40,60,16,90,51,67,b4,be,31,89,54,0b,16,99,bf,ed,df

Block No 9

7d,12,b0,e6,01,25,e5,d3,e1,9c,dd,41,a5,14,9b,52,3f,1d,3e,ef,c1,e8,df,7e,7a,27,07,81,b7,b5,28,86,45,b5,33,06

Block No 10

7d,12,b0,e6,01,43,a3,54,5d,7a,f3,d0,c4,18,ea,78,31,09,58,9b,5a,ce,2c,73,c4,db,82,fc,93,fd,9f,7a,b8,e6,cf,7d

Block No 11

7d,12,b0,e6,01,70,81,e0,54,7f,16,b2,e2,b5,7d,d0,49,64,bd,db,ac,2c,2b,25,a7,d2,f5,26,36,fc,7d,21,11,f9,16,ca

Block No 12

7d,12,b0,e6,01,8f,e5,6d,94,83,63,87,83,d6,5a,80,63,dd,fd,4f,06,ea,e4,f6,03,b4,af,1c,7f,ff,bf,ff,f9,df,83,1e

Block No 14

7d,12,b0,e6,01,da,72,46,77,76,a5,7b,d8,37,e6,d0,40,71,12,a0,a3,7e,e5,47,42,ce,f3,2a,a4,38,05,06,8d,39,9f,b2

Block No 15

7d,12,b0,e6,01,e9,f2,9f,0a,5a,c9,20,a4,e6,8e,93,7a,62,bb,3a,65,a2,cc,ea,11,37,47,85,ea,bf,07,2f,3b,31,dd,b5

Block No 16

7d,12,b0,e6,02,1e,00,00,40,00,a0,00,10,00,00,00,00,00,20,08,00,0e,00,0d,30,0f,e0,04,e0,07,60,0c,e0,05,90,06

Block No 17

7d,12,b0,e6,02,2d,de,87,b6,5a,b4,2a,da,d0,9b,b2,a3,7f,74,4f,70,78,c2,0e,96,79,6e,a8,59,bb,78,b3,ee,47,95,6e

Block No 18

7d,12,b0,e6,02,4b,a2,d5,2b,ef,53,98,45,c3,fe,72,9e,2f,7a,35,45,ae,77,32,27,e3,f7,46,ae,05,78,91,be,08,4d,78

Block No 19

7d,12,b0,e6,02,78,45,6e,d7,be,ec,3e,75,08,06,52,83,1d,c7,21,0d,84,f0,8b,03,81,9b,38,9f,eb,7d,f8,e5,58,a5,b6

Block No 20

7d,12,b0,e6,02,87,34,ac,7d,5c,ad,5f,af,b6,d1,e0,17,87,f5,b1,82,87,35,50,56,76,06,7d,b2,a5,4e,9d,36,1e,36,e6

Block No 21

7d,12,b0,e6,02,b4,20,44,ad,f8,e9,40,4e,f2,f9,68,6b,42,c4,4d,41,3a,08,2b,e0,cf,d9,cd,d4,3d,78,c6,8a,79,46,df

Block No 22

7d,12,b0,e6,02,d2,ad,21,8c,8e,7a,76,59,a1,30,78,be,3e,20,c0,48,c4,eb,db,be,93,f3,ef,0e,04,11,1b,13,d6,b1,68

Block No 23

7d,12,b0,e6,02,e1,35,4a,9d,0f,c2,a0,c3,78,a0,97,91,01,ea,c4,28,11,ed,1d,d3,2e,d7,c8,4b,6e,d6,00,8b,e6,83,1d

Block No 24

7d,12,b0,e6,03,08,9f,82,a2,8d,f6,16,d0,79,c7,04,83,62,b0,01,3b,a2,6e,f7,0f,61,c8,2a,b5,b0,87,d2,b8,43,1e,ad

Block No 25

7d,12,b0,e6,03,3b,a2,1a,90,46,46,e3,94,08,82,23,ba,77,36,00,f5,35,1e,e6,1a,cc,eb,a7,66,13,6c,36,1b,5f,97,48

Block No 26

7d,12,b0,e6,03,5d,dd,68,ed,a0,b5,a0,a6,c2,75,e9,60,66,c4,16,39,ca,b2,c8,47,32,2d,2b,df,f6,dc,06,59,fe,08,22

Block No 27

7d,12,b0,e6,03,6e,8d,76,eb,76,ae,46,dd,71,6e,d7,f1,82,6e,9c,d8,4e,58,9c,87,f4,04,79,71,e6,36,49,f6,0f,13,97

Block No 28

7d,12,b0,e6,03,91,65,93,96,53,9c,36,f5,d5,51,15,bd,31,97,25,c6,a4,3a,6e,8e,5d,2d,42,37,20,ef,66,5f,10,58,bb

Block No 29

7d,12,b0,e6,03,a2,97,1a,57,50,4a,76,a3,f4,50,f4,d4,9a,64,a5,6a,aa,5c,ee,ca,f7,65,04,ad,2d,c2,ff,47,3c,1e,5a

Block No 30

7d,12,b0,e6,03,c4,14,80,7f,74,21,b0,73,30,b8,97,f6,46,7f,c3,53,ed,7b,5e,f8,27,e4,2e,8d,4f,d1,15,40,3c,26,65

Block No 31

7d,12,b0,e6,03,f7,ea,0a,ce,3f,54,8c,be,52,e9,65,aa,c4,29,93,e9,ac,db,fb,1e,04,b4,59,5e,e6,2a,d5,53,2b,46,46

Block No 32

7d,12,b0,e6,04,18,00,00,40,00,a0,00,10,00,00,00,00,00,20,08,00,0e,00,0d,30,0f,e0,04,e0,07,60,0c,e0,05,90,06

Block No 33

7d,12,b0,e6,04,2b,ad,5f,49,37,08,5c,78,01,86,e7,20,32,b2,19,c5,3f,55,b0,44,3d,2b,e6,36,1e,15,27,81,5a,57,30

Block No 34

7d,12,b0,e6,04,4d,4a,85,ce,bf,5f,6e,52,90,36,b7,c3,00,d7,9a,ef,ee,2c,c5,a1,18,67,6c,59,fc,ab,82,5a,3b,d5,26

Block No 35

7d,12,b0,e6,04,7e,e1,3a,7e,bf,b9,db,1c,46,2c,d0,7e,f0,95,f6,3f,9e,44,64,99,2c,5b,d4,a0,6a,7b,73,56,a5,05,b1

Block No 36

7d,12,b0,e6,04,81,10,60,d4,00,df,70,89,d0,e2,00,bd,03,b9,02,fd,04,91,0f,f9,64,b7,a6,08,79,43,c5,84,c2,ce,77

We received a n interesting note from Danix. It confirms what we long suspected: intelligence, diplomatic and other government stations are using the same transmitter sites. He writes:

The following was heard yesterday, October 14th. At about 0720 UTC, I noticed a carrier on 10755kHz, a frequency commonly used by the Russian military intelligence agency GRU for unscheduled transmissions of E06 and S06 with ID 975. I recognized a characteristic of one of their transmitters, which is a hum on carrier on both side bands, but actual audio on the upper, with only traces of it on the lower. So I started recording, expecting E06/S06. However, at 0742:05 UTC, X06 started with the scale 154263, which lasted until 0746:43 UTC. At 0747:44 UTC, the Windows XP USB disconnect sound was heard. The carrier remained up with no activity until 0832 UTC.

Here is a recording of this event:

<http://priyom.org/media/132200/x06-10755usb-20141014-0742-0746z-winxp-byavare.wav>

And these are recent E06 recordings, in which you can hear the same transmitter noise as in X06 above:

<http://priyom.org/media/122710/e06-13898usb-20140814-1505z-msg-bydanix.ogg>

<http://priyom.org/media/130159/e06a-18724usb-20141002-1600z-msg-bydanix.ogg>

Regards

Daniel



XP family

XPA, 10868/12168/13368 kHz, 01-10, 0600/0620/0640 UTC

XPA, 13368 kHz, 04-10, 0640 UTC

813 813 813 000

01021 00001 00000 10140

XPA2, 14947/14447 kHz, 03-10, 1520/1540 UTC

05170 00001 00000 10140

XPA2, 14538/13538 kHz, 05-10, 1520/1540 UTC

06613 00001 00000 00140

XPA2, 16147 kHz, 05-10, 1500 UTC

01082 00001 00000 10140

20841/18741/17441 kHz, 10-10, 0700/0720/0740 UTC

00137 00125 49104 91806 56888 09367 02897 49324 61939 89965
87222 99757 72646 87434 97325 66541 13689 38424 67715 91684
51836 36651 63191 36711 43926 39605 80603 46451 52202 54827
12579 20887 62084 56278 21764 07960 74566 57822 05722 21805
82508 70320 65341 30853 06263 36679 89331 75288 94839 35332
23130 95732 88068 35093 35193 83455 13336 66845 48294 00213
07192 56559 43471 90286 90864 00900 88087 86577 15023 00866
10423 57570 22901 71243 77988 92766 63667 61118 15538 96681
63162 11185 35423 54667 53772 64315 67346 33256 27363 04730
96685 80094 07604 05195 74478 03361 99985 69218 08662 40309
66093 02027 06548 09519 57125 96579 15109 15284 80975 37169
94696 30136 10660 16906 45972 52957 86333 81365 77973 01791
29801 53843 86163 79885 22924 80833 65059 02207

XPA2, 17462/16114/14828 kHz, 10-10, 1400/1420/1440 UTC

04059 00000100000 10040

XPA2, 16147/14947/14447 kHz, 10-10, 1500/1520/1540 UTC

07582 00213 06390 31892 94343 68356 12128 31998 70291 73491
51031 77654 30898 86016 29226 85771 73766 53007 06527 76481
77953 23187 22750 51510 07861 81786 66114 55506 93015 53303
79225 50182 95250 04758 80187 49146 19662 25865 71374 87908
63909 26088 20150 67132 87075 30699 65492 52023 56111 48226
03712 22155 72261 32123 74244 34771 63916 71393 51992 57855
87469 61628 30994 03718 59743 36459 12222 60031 33833 39559
61668 22245 90335 26227 39169 51269 22609 23244 02668 38227
21335 33013355422 76655 38736 87322 50123 30816 47763 92000
75317 75765 20088 24761 64161 00903 44447 29292 72654 59880
29902 09087 24221 40421 01178 57819 01210 84597 32967 54359
94225 25763 15042 48649 12756 23735 17741 44453 77531 28580
37561 98731 42568 08489 76763 59333 73635 63562 20383 76843
85026 90769 38724 16856 55005 09057 06472 25457 67961 88139
48413 66100 28380 32183 68072 44373 69353 72111 41254 59025
31414 56926 41995 23681 25699 29189 43088 48276 68869 03093
77285 73887 71018 85414 62621 43993 59756 32334 59148 39745
93531 75128 41071 51514 34279 23764 73761 22937 17353 12737
73532 46531 98956 74156 40778 47908 44737 95088 07820 47743
79508 30696 58741 68328 32902 36256 24164 62684 28981 68948
61732 38724 31715 79100 46859 17033 19029 42221 87330 88315
13129 18917 60673 87234 94059 23551

XPA, 10868/12168/13368 kHz, 11-10, 0600/0620/0640 UTC

813 813 813 1
03447 00123 79019 98310 58029 79639 99642 65024 01296 08479
31439 94967 68899 27881 12066 64463 31174 25633 55342 01362
50122 67348 61762 02797 02352 40760 76637 28864 42268 06822
72893 40326 85967 60036 31959 37397 14570 16698 94070 72246
20658 53237 33832 13437 43729 88521 97557 80746 81364 70022
37897 42860 50802 44291 70090 58871 48047 83535 83918 39550
90163 47423 40101 54772 73177 44880 83702 99671 36577 36293
64639 99013 58189 27524 54436 91887 54690 79256 42340 66961
10694 33451 37474 45746 30113 06092 39798 75770 36431 88742
60740 47152 48514 16518 97241 53785 78791 67342 23259 61713
74860 18568 32277 86273 51322 43895 73731 52445 94739 97186
14155 83057 70576 80184 98784 63832 61509 60286 58154 34085
71955 39347 94848 48292 89583 61024

XPA2, 16114/14828 kHz, 11-10, 1420/1440 UTC

01806 00001 00000 10140

XPA2, 14447 kHz, 12-10, 1540 UTC

05284 00002 00000 20240

XPA2, 20841/18741/17441 kHz, 14-10, 0700/0720/0740 UTC

06835 00001 00000 10140

XPA, 10868/12168/13368 kHz, 15-10, 0600/0620/0640 UTC

813 813 813 000

03588 00001 00000 10140

XPA2, 20841/18741/17441 kHz, 17-10, 0700/0720/0740 UTC

05912 00001 00000 10140

XPA2, 17462/16114/14828 kHz, 17-10, 1400/1420/1440 UTC

08150 00001 00000 10140

XPA2, 16147/14947 kHz, 17-10, 1500/1520 UTC

08826 00191 01933 48691 09832 01929 86995 10941 70204 42500
89625 80566 37555 66751 50289 34144 04407 31338 71196 74671
39387 18372 78325 85472 49847 62443 07808 89856 86338 25022
28677 81616 65027 87276 85157 76250 70724 37935 06120 52545
25124 11348 26942 20699 42884 69517 83442 67074 54550 18846
27483 21557 53466 82688 65220 60063 32231 55885 64605 05163
56833 89244 93833 68876 92891 28790 77290 99656 32788 04322
36609 44412 00556 94426 41178 28194 86473 72554 70650 49497
44050 19777 11155 66375 41327 92531 57153 33320 18394 75660
92711 00186 71585 53367 11191 22290 53888 12526 70114 91036
93788 81501 81810 65842 85631 06371 43983 00309 16455 70486
51686 51716 39110 47989 60105 00618 13183 95823 24568 03119
77587 64031 97493 84934 02024 93820 59323 80769 31250 89545
82032 31308 84894 11311 41754 11595 86962 14175 55204 76911
08898 26767 96626 51416 61540 26802 79066 58860 60869 24460
55880 13989 42604 81681 38688 56748 11583 60839 42005 11448
31493 60177 70429 86263 69199 59971 62193 35757 33277 23526
55022 69431 65027 15647 89394 11627 80232 26026 47239 44202
50178 13936 32925 83215 50338 59716 96458 18122 89156 59480
93847 88020 31618 62474

XPA, 10868/12168/13368 kHz, 18-10, 0600/0620/0640 UTC

813 813 813 000

07541 00001 00000 10140

XPA2, 16147/14947/14447 kHz, 19-10, 1500/1520/1540 UTC

07376 00001 00000 10140

XPA2, 20841/18741/17441 kHz, 21-10, 0700/0720/0740 UTC

00971 00083 85994 22002 16617 09423 67444 59597 32419 16877
77445 55023 31253 94458 83251 71171 17284 34618 70431 41633
92834 44671 10700 63813 40602 78243 69486 28949 66553 80395
72574 75054 95006 29829 19049 62021 18239 21753 66085 63094
12247 91828 33618 29638 04667 13467 94740 08877 72317 44804
68849 71619 00199 73735 00239 58155 67732 35103 30066 23456
98164 29076 20611 38362 40186 72200 41676 08776 74055 78859
15363 30073 92285 44386 27737 08853 26437 19663 21953 95974
52909 40672 81684 78769 82345 76216

XPA2, 17462/16114 kHz, 18-10, 1400/1420 UTC

07935 00001 00000 10140

XPA, 10868/12168/13368 kHz, 22-10, 0600/0620/0640 UTC

813 813 813 000

05125 00001 00000 10140

XPA2, 20841/18741/17441 kHz, 24-10, 0700/0720/0740 UTC

05912 00001 00000 10140

XPA2, 17462/16114/14828 kHz, 24-10, 1400/1420/1440 UTC

05603 00119 62870 72549 71062 28970 95648 71300 77416 81122
94001 50756 55431 29262 05718 08366 54716 61902 67172 98362
26457 45543 92997 75529 37996 30264 51207 13925 53761 22405
98519 99218 82193 47777 82908 09223 57606 80103 59162 23360
20580 97758 14259 27977 72149 83456 08721 03197 25900 32025
48337 46979 13386 36840 33324 12828 16627 03028 30180 83007
43989 68634 23094 15278 42592 16092 34785 00448 04368 59520
05775 22079 36029 44669 74475 82383 38779 14446 77929 57119
47766 84133 42077 15442 32322 99008 44272 21187 86402 86919
58543 65526 71548 44259 50884 27571 93751 26355 00558 29386
42879 44202 52233 54889 48893 95157 86360 85329 29860 44483
17105 92186 79389 37153 89776 93379 79220 52186 54921 91151
13549 66474

XPA, 10868/12168/13368 kHz, 25-10, 0600/0620/0640 UTC

813 813 813 000

04611 00001 00000 10140

XPA2, 16147/14947/14447 kHz, 26-10, 1500/1520/1540 UTC

00739 00235 56914 69563 43071 09654 57719 56889 71798 81078
02108 06824 66242 14647 01164 51090 02768 07928 43156 63650
26214 80774 14957 92418 26453 64507 44011 87991 21652 33169
14030 51968 39814 03197 66681 02691 63232 77312 41333 07736
88273 12680 83004 17659 83003 11480 95552 71869 89203 33381
69552 95878 95550 85525 77569 15555 10430 69288 58998 06406
86432 95652 27970 23659 14922 70010 22262 52944 86068 00278
72920 81933 61279 64092 39999 99169 05060 63421 08062 63467
94133 37733 389783 54877 64333 10408 05293 49844 0774 55953
08076 75139 11009 40666 31802 32655 93269 85316 39214 49541
90929 15907 02199 12191 63481 86892 35404 17548 10941 82918
93913 51633 83660 71461 12580 38068 36019 44485 37210 17790
89746 15066 33663 50332 39392 19292 65233 62546 10687 41114
57167 10909 95288 31455 10025 75227 67218 54775 46146 12663
60553 11869 10828 33430 37831 79784 08394 12556 88186 60029
43691 99485 31767 65855 18628 39803 89779 11635 34838 89536
17042 12391 20336 56289 52190 67882 25803 73562 74613 12678
38118 55169 33024 68208 36305 11426 25414 67668 40297 09207
55309 17788 46927 70963 50384 98940 62484 15743 75833 88722
95237 23498 09124 91859 21729 06870 64454 43886 59542 52096
51176 84191 13025 79235 31812 97250 76361 86256 89498 16092
67674 71532 83394 44677 54775 71412 01284 32725 49994 48770
18607 93961 85842 48086 61902 09151 79982 60503 59975 74259
13143 32348 40990 64521 33532 59578 21763

XPA2, 16338/14538/13528 kHz, 26-10, 1500/1520/1540 UTC

08154 00001 00000 10140

XPA2, 20841/18741/17441 kHz, 28-10, 0700/0720/0740 UTC

00159 00117 27332 43936 03897 60642 75393 32412 86319 79245
 35351 73366 82519 00705 63291 87608 58877 62666 00359 94432
 88186 13484 00262 85006 88355 86683 09175 33938 54650 17030
 18780 51626 39966 05302 36063 81587 78832 88680 90029 61563
 81588 48666 43370 20008 76667 03361 43366 08417 02587873400
 01394 12080 74083 29769 80054 52210 48087 69133 80703 29334
 84344 34296 26523 33616 50731 62766 84064 55217 56765 16492
 66666 10909 63719 61462 37544 18208 44263 65328 00388 25607
 11209 44208 84159 53039 50291 17707 89979 51061 23326 72152
 80729 53160 32717 04973 20559 92839 35256 14584 44769 50936
 59405 54180 52730 94025 61590 39065 77076 16231 15112 33354
 03027 83565 28163 96893 13620 96486 19057 29574 74449 27040

XPA2, 16338/14538/13538 kHz, 28-10, 1500/1520/1540 UTC

09304 00001 00000 10140

XPA2, 19117/18264/20027/19047/18056 kHz, 28-10, 1340/1350/1520/1530/1540 UTC

03934 00110 62903 36968 56791 23838 98196 95027 67874 48116
 87403 01301 27635 14349 69040 91421 90329 32005 14622 26898
 04739 42362 41504 42802 63147 17579 04834 24373 13295 29220
 77762 56799 41532 30024 09947 57546 30698 53532 52798 36739
 34555 62695 90246 49912 29013 06052 43749 53094 25719 99050
 01202 53800 39282 31894 74606 88915 89128 44086 98415 18890
 61857 38584 50696 64036 66943 18780 24245 59737 99996 14588
 19738 59952 33261 25033 68539 08202 85453 66554 75844 89385
 51277 66142 07883 44115 87003 85331 33182 95883 73906 58222
 30517 13078 06669 46778 90580 24184 74083 76848 33428 93944
 08426 15824 98162 29835 94727 84056 91030 19214 69748 29683
 83400 05423 00140

XPA, 9362/8062/7462 kHz, 28-10, 1900/1920/1940 UTC

304 304 304 000
 05111 00001 00000 10140

XPA, 8062 kHz, 30-10, 1920 UTC

01451 00001 00000 10140

**DP01**

Eddy copied a complete DP01 sked on the 24th and the logs for the 25th are a #WUN team effort. Thanks to linkz for sending them to us.

19922 24-10, 0830, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK
 19117 24-10, 0840, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK
 18265 24-10, 0850, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK
 21918 25-10, 0800, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK (8min23s MFSK16 data length)
 20881 25-10, 0820, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK (8min23s MFSK16 data length)
 20461 25-10, 0840, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK (8min23s MFSK16 data length)
 19921 25-10, 0900, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK (8min23s MFSK16 data length)
 19117 25-10, 0920, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK (8min23s MFSK16 data length)
 18264 25-10, 0940, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK (8min23s MFSK16 data length)
 21859 25-10, 1000, 33Bd MFSK-16 / 2x 62.5Bd QPSK (4min43s MFSK16 data length)
 20726 25-10, 1010, 33Bd MFSK-16 / 2x 62.5Bd QPSK (4min43s MFSK16 data length)
 20027 25-10, 1020, 33Bd MFSK-16 / 2x 62.5Bd QPSK (4min43s MFSK16 data length)

19047 25-10, 1030, 33Bd MFSK-16 / 2x 62.5Bd QPSK (4min43s MFSK16 data length)
 18056 25-10, 1040, 33Bd MFSK-16 / 2x 62.5Bd QPSK (4min43s MFSK16 data length)
 15864 25-10, 1050, 33Bd MFSK-16 / 2x 62.5Bd QPSK (4min43s MFSK16 data length)
 11536 28-10, 1850, 16.5Bd MFSK-16 / 2x 62.5Bd QPSK

Linkz also mentions that the DP01 frequencies are the same as the ones that XPA2 uses. See below:

21918 USB XPA2 polytone station - (1300z sked)	21859 USB XPA2 polytone station - (1500z sked)
20881 USB XPA2 polytone station - (1310z sked)	20726 USB XPA2 polytone station - (1510z sked)
20461 USB XPA2 polytone station - (1320z sked)	20027 USB XPA2 polytone station - (1520z sked)
19921 USB XPA2 polytone station - (1330z sked)	19047 USB XPA2 polytone station - (1530z sked)
19117 USB XPA2 polytone station - (1340z sked)	18056 USB XPA2 polytone station - (1540z sked)
18264 USB XPA2 polytone station - (1350z sked)	15864 USB XPA2 polytone station - (1550z sked)



XSL a.k.a. Slot Machine
Japan Maritime Self-Defense Force
海上自衛隊 Kaijō Jieitai

Daily on 4153, 4231.5, 5417, 6250, 6445, 8313, 8588, 8703.5 kHz.

Mode: QPSK 1500bd

Reportedly telemetry transmitted by the Japanese navy



North Korean diplomatic stations

Frequency	Date	UTC	Day	Remarks	Mode
19665	24-9	0825	Wed	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
18357	2-10	1030	Thu	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
22150	2-10	1040	Thu	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
18172	2-10	1103	Thu	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
18860	3-10	0855	Fri	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
19137	4-10	0905	Sat	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
17435	4-10	0915	Sat	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB
11320	25-10	0704	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB
20450	25-10	1532	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB



Egyptian diplomatic stations

Modes: SITOR-A 100/170 & Codan-9001

Frequency	Date	UTC	Day	Remarks	Mode
19123.7	14-10	1523	Tue	MFA Cairo coded and plain text sent mostly garbled	Sitor-A 100/170
11171.7	16-10	2155	Thu	MFA Cairo ending msg "hpdj tys lus kjkg kddr yks yks yks"	Sitor-A 100/170
19162	25-10	1356	Sat	MFA Cairo clg embassy New Delhi Embassy + Codan-9001 msgs	SITOR-A 100/170



Chinese diplomatic stations

18359.9 kHz, 11-09, 0830 UTC, LSB 4+4 QPSK 75/3000

XYXYXYXYXYXYXYXYXYXYXYXY HR MSG GA PSE NOTE CY

0247 0206 51 0911 176

7503---6976

2243 6247 2717 0923 6107 6760 1107 6346 9981 1903 etc.

After completing transmission voice conversation is heard.

22752.9 kHz, 05-10, 1030 UTC, LSB 4+4 QPSK 75/3000

6080 7225 8167 7041 3937 8996 6323 2696 8597 8674

9898 4591 6283 7564 2341 1080 6753 7921 9394 0110

4832 etc etc.

QSL ? QSL ?

XYXYXYXC QSL 1840 AHR BOZ NIL SK

XYXYXYXYXYXYXYXY GD QSL 1840 AHR BOZ NIL SK

XYXYXYXYXYXYXYXY GD QSL 184QSL?QSL?QSL?0 AHR QSL?QSL?QSL QSL?QSL?QSL?



ISI **Pakistani Intelligence**

19647.85 kHz, 30-09, 1125 UTC, Pactor 2 FEC: ISI (Karachi)? Five Letter groups. AL1LH DE MO2HD

UTILITY ROUND-UP



Armenian Air Defense

Armenian Air Defense with bearing/range reports.

6450 kHz, 10-10, 1612 UTC

6450 kHz, 11-10, 1729 UTC

6450 kHz, 17-10, 1614 UTC

3790 kHz, 17-10, 2125 UTC

6450 kHz, 20-10, 1528 UTC

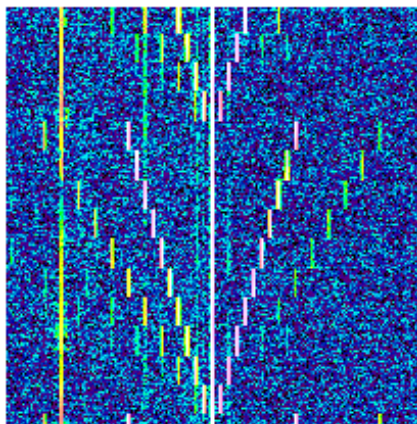
6450 kHz, 22-10, 1532 UTC

6450 kHz, 26-10, 2203 UTC

6450 kHz, 27-10, 1612 UTC



Unid stations

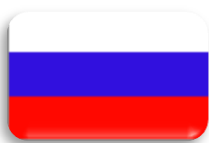


An unid, probably Russian station, has been testing on October 28th and also on the 29th. It was a 10-tone transmission at 1kHz spacing. Bandwidth 20kHz. A recording can be found on the UDXF and Numbers & Oddities websites.

5078.5 kHz, 28-10, 0911 UTC
 8685 kHz, 28-10, 0952 UTC
 9212 kHz, 28-10, 1205 UTC
 10184.5 kHz, 28-10, 1224 UTC
 12138 kHz, 28-10, 1244 UTC
 13997 kHz, 28-10, 1304 UTC
 14516 kHz, 28-10, 1328 UTC
 15822.5 kHz, 28-10, 1359 UTC
 19561 kHz, 29-10, 0837 UTC

RUSSIAN MILITARY TRANSCRIPTS

Faux, Jay, Tom, JPL, Antonio, Ary, Wolfgang and a huge amount of Russian Navy logs from Tony.



RMv/RNv/RNav/RAv **Russian military stations**

Frequency: various
 Mode: USB / voice

RMv

6450 kHz, 16-10, 1614 UTC Russian Mil duplex net: Plomba-56 ya Avtor-25 poluchyaeti moyu rabotu? Avtor-25 ya Plomba-56 poluchyayu horosho, into AT3004D traffic (Plomba-56 here is Avtor-25 how do you copy? Avtor-25 this is Plomba-56 I copy you well)



M32 **Russian/CIS Military CW Stations**

5770 kHz, 03-10, 1716 UTC

RSK6 RSK6 DE RWI2 QSA ? PSE K (Into digital mode)
 RSK6 RSK6 RSK6 DE RWI2 QSA ? PSE K
 NIL GB 73 VA SK (Return to digital mode)

7963 kHz, 04-10

1705 UTC NQ6N QTC ZIR AR.
 1706 UTC 4E5W 685 26 4 2048 885 = ZIR 664 = MMMMM RBZDO ILAKK AKITA
 1709 UTC WCL3 DE 4E5W R 785? K
 1710 UTC AD80 DE 4E5W R 785? K
 1711 UTC Y6DE DE 4E5W R 785? K
 1712 UTC 2DE8 DE 4E5W R 785? K
 1713 UTC X124 DE 4E5W R 785? K
 1714 UTC LEV8 DE 4E5W R 785? K

1717 UTC LEV8 DE 4E5W QTC ZTO
 1718 UTC 4E5W 656 19 4 2104 656 = ZTO 998 = followed by 5 letter group message

10683 kHz, 03-10, 0900 UTC XXX XXX SIJG SIJG 40713 NASTUPLENIE 8300 2358
 10131 kHz, 08-10, 0913 UTC 44 = 08150 32835 93460 80302 10032 70252 8653X 915XX 08150 42656 94340 83603
 10028 71022 75152 8802X 908XX 08.50 23744 65560 42503 10073 84500 920XX 08024 K
 7908 kHz, 08-10, 0925 UTC 1515 520 = 0023 = DDDDD CFYVU FAPQD SXQTV MMLOE SXQTV MMLOE SXQTV (Cont'd)
 7983 kHz, 08-10, 0926 UTC R 520 k. Y12Q R 520 K. IBIV R 520 K (Possibly other end of 7908 as this station refers to 520 which is the message sent by the station on 7908 kHz)
 7969 kHz, 08-10, 0929 UTC WIB2 QSA 3 QSA ? K. OHE9 QSA 2 K. R K
 16048 kHz, 12-10, 1331 UTC WYNJ de MNK6 K. R K.
 14376 kHz, 14-10, 1405 UTC Y63B QRV K. Y63B R 521 K
 14376 kHz, 14-10, 1125 UTC F1B2 sends msg to NTLZ: F1B2 607 28 14 1507 607 = 595 = PPPPP RTDBI DEEKZ REWBH QLGST ...
 NEÖZC FNLAP GönVC IHUVI äRPWY K. 5K8X Y63X ZVWH also active in comms checks and messages.
 13404 kHz, 14-10, 1405 UTC Y63B de SI5G QTC K. Y63B responds on QSX freq 14376 QRV K. SI5G 521 50 14 1800 521 = 705 =
 KÖRBS AFVRD ZUCHTC WGWEX ZHChTE ... K
 3872 kHz, 15-10, 1756 UTC 9EBB de 5WYK ZEK ZEG ZAS QYT6 K. QRJ? QYT6 K. QLS QYT6 K. etc...
 5096 kHz, 17-10, 1358 UTC P8S9 P8S9 QLX AR. JCG7 DE ETY7 K. R K. CK1Z DE ETY7 K. R K. J7EF DE ETY7 K
 13404 kHz, 17-10, 1332 UTC NTLZ R 831 K
 3844 kHz, 21-10, 1506 UTC XXX XXX JSJ8 JSJ8 05391 PERED'A 4452 05391 PEREDA'A 4452 K VA AR
 18.1 kHz, 23-10, 1626 UTC XXX WEGI 89615 07359 PEChEC 9616 6838 K. XXX followed by many T-600 messages.
 6472 kHz, 21-10, 0537 UTC VVVVVVVVV S3HF S3HF S3HF DE S2GB S2GB ZXT ZUW RPT ZXT ZUW K
 14376 kHz, 22-10, 1157 UTC i.p. G8RV QRV K

14014 kHz

09-09, 0912 UTC E3DX 5LGs ending 131 k
 12-09, 0715 UTC BLGB 5LGs
 16-09, 0603 UTC BLGB ICXG DE BLGB
 16-09, 0604 UTC BLGB 4YB1 DE BLGB
 22-09, 0608 UTC 7KGS SMVX DE 7KG
 22-09, 0618 UTC 7KGS G68T DE 7KGS ZBQ ZNV ZBT QRR3 K
 22-09, 0921 UTC MKW 5LGs ending 863 rpt al k
 22-09, 0928 UTC 7KGS ZBU ZNY ZNK QYT9 k (to: SMVX)
 22-09, 0937 UTC 7KGS QTA QLX QYT9 k



M32a ***Russian Navy*** ***Voyenno-Morskoy Flot Rossii***

4537 kHz, 06-10, 1220 UTC

/// 80000 8.000 06017 =
 AR RJ170 K
 RBC89 RPT 125 17 6 1602 125 =
 FOR RJD90 RJH74 K
 RBC89 AS K
 RJD99 RJIII RJD99 RJD99 DE RJ170 QSA 3 K
 RJD99 RJD99 DE RJ170 RJ170 QTC QSL ? K
 RJ170 455 I 6 1602 5 =
 SML FOR RJH45 RJD90 =
 06121 99647 10357 41/98 72708 WET 40400 54010 70222 8///// 22.0///// F///// 3///// 4///// 80000 88000 06017 = AR RJ170 K
 RJ170 RPT 99647 0///// K
 RJ170 OK QRU K
 RBC89 RPT 125 17 6 1602 125 =
 FOR RJD90 RJH4IIII FOR RJD90 RJH74 K
 RBC89 RPT
 06121 99670 10438 41497 82807 10100 40310 54000 70222 88/// 22200 00070 20101 ...

4576 kHz, 06-10, 1216 UTC:

06121 99726 10480 41/92 /2705 10053 40292 54019 72814 .///// 22262 003III 8///// 22262 00030 299// 399// 06014 =
AR RJ192 K
RJ192 OK QTC K
RJ192 649 48 6 .605 649 =
FOR RIT RJD56 RJD89 =
11111 15754 91803 14334 99331 55467 21884 (Cont'd)

18107 kHz, 26-09, 1112 UTC RDL F1A XXX RDL 99560 5FGs
21438 kHz, 09-09, 1430 UTC RIP90 DE RCV 376 71 9 1426 376 =
21438 kHz, 09-09, 1430 UTC NAWIP 033 1819 KARTA (etc)
6319 kHz, 03-10, 2110 UTC RLO DE RIT QTC
10683 kHz, 12-10, 1154 UTC XXX XXX W6BY W6BY 38309 MELOWANNYJ 6663 4673 (10683 // 12688 // 13443 kHz)
10535 kHz, 12-10, 1158 UTC UUU XXX XXX W6BY W6BY 47118 38309 MELOWANNYJ 6663 4673
11155 kHz, 12-10, 1206 UTC XXX XXX RLO RLO 86161 WOLKONEAe 5299 9217
10535 kHz, 12-10, 1208 UTC 00426 86161 WOLKONEAe 5299 9217
Navy station "RIT" was receiving msg (weather) from RFE76 at 1205 UTC, which stopped sending when RIT sent XXX-message, then finished her bulletin nr 428:
VVV RIT DE RFE76 QSA? QTC K
RFE76 428 22 12 1600 428 = SML FOR RJH45 RJH74 RJD38 =
12121 99450 70088 42497 70412 10174 40063 54000 86820 22252 00187
2050330714 40905 50804 8800 (silent, receiving XXX)
RFE76 RPT 50804 88000 80000 12017 = AR RFE76 K
10543 kHz, 13-10, 1653 UTC XXX XXX RJV RJV 81127 BATRAÖIHA 1425 9855 KOÖECHB 5663 1553 K (confirmed only by RJT22/12464)
10543 kHz, 12-10, 1539 UTC RHL80 DE RCV QYT4 QSX 5322 k
11155 kHz, 18-10, 1512 UTC RFE76 RFE76 DE RIT RIT QSA3 QRV K
13044 kHz, 13-10, 1255 UTC ...= AR RBEG K
4580 kHz, 17-10, 1903 UTC RJD99 DE RAH82 QSA ? QTC K. 859 16 17 2257 859 = FOR RJD90 RJH74 = 17181 99682 10393 41/97 /2314 11010 40160 54030 70011 2227. 0... 99// 88000 17013 = (Position report!) AR RAH82 K
10540 kHz, 21-10, 1315 UTC RAA: enciphered Morse sked setups with warship RJD52 de RAA ZKM? ZDS GNGCh ZZT
VLVKLMKVLVLMVLLML etc, then into cipher JDBQäKLAB ... Simplex net but ship too weak to copy.
5775 kHz, 26-10, 1809 UTC RCV QTC 228 72 25 0020 228 = into 5f message
9145 kHz, 26-10, 1716 UTC RGB57 DE RIW
10796 kHz, 21-10, 1307 UTC i.p. Z 14522 35430 21038 = RPT AL AR RAA K
14556 kHz, 22-10, 1240 UTC 497 55 22 142T 497 = FM RAA = 64981 IIII AS1 IIII RIW AS1 K
14556 kHz, 22-10, 1242 UTC QYT4 QWH 11842/12872 QSX 12370/15463 K

6364 kHz, 21-10

1607 UTC VVV RIT RIT RIT DE RAA RAA QSA?K
(RIT QSA1 not to copy)
RJD71 RJD71 RJD71 DE RAA RAA QSA?K
(RJD71 QSA1) RAA DE RJD71 QSA2 K RAA QAP K
1612 UTC RIT DE RAA K
RAA QRR3 QDW 10540 K
1616 UTC 10540 RIT DE RAA ZZD2
ZN'E TRI DEWAeTX TRI (393) ZN'E? K
RAA DE RIT ZN'E NOLX NOLX ChESTX (006)
1621 UTC RIT DE RAA ZKM? K
RAA DE RIT ZKM K
(RAA) ZDS GNGCh ZZT
KVKLVKLVMMVKVKLMMLMKMLKKM (Encyphered texts)
1724 UTC RAA SK RIT SK

10540 kHz, 21-10

1726 UTC 06364 RIT DE RAA K
RAA QRR3 SK K
1750 UTC RJD71 DE RAA K
RAA QYT9 SK K

8345 kHz, 01-10

1909 UTC RMP de RFE76 (Sibiryakov Survey/Research ship clg Baltic Fleet HQ, Kaliningrad)

8345 kHz, 03-10

1131 UTC VVV RMP DE RFE76 QSA?
 1132 UTC RMP DE RFE76 QYT4 QSA?
 1148 UTC RMP DE RFE76 QYT4 QLS
 1152 UTC RMP DE RFE76
 1153 UTC RFE76 OK QRV
 1159 UTC VVV RMP DE RFE76 QSA? QTC
 1200 UTC RFE76 251 92 3 1555 251 = FOR RJC66 =
 12313 53673 55807 38403 61759 38469 30382 24953 20556 06650
 99585 82877 03681 46351 24893 76004 93550 96716 78265 93902
 31751 14372 77004 69757 22921 95260 76543 56881 57021 93503
 31456 71064 68686 93343 02244 82003 56215 89117 88589 10222
 88394 69147 14578 44465 57805 09056 06279 83334 51658 67652
 48371 88824 92855 76028 03468 74083 01365 42785 89248 90361
 62111 50142 05557 78121 28210 10136 7??71 46202 45645 98001
 96845 66960 24522 23834 ?7610 19425 05180 26500 10943 91486
 61190 84054 32305 20038 63039 93157 44091 97611 06??? 75361
 03090 = + RFE76
 1211 UTC RFE76 QTC
 1212 UTC RFE76 939 20 3 1610 939 = SML FOR RJH45 RJD38 = 03121 99570 10079 22252
 1505 UTC VVV RMP DE RFE76 QSA? QTC
 1506 UTC RFE76 463 20 3 1904 463 = SML FOR RJH45 RJD38 = 03151 99566 10074 22252
 1535 UTC RIT DE RJP99 QSA1 QRV
 1540 UTC RJP99 QSL 8?9
 1723 UTC VVV RCV DE RMUW QSA? QTC
 1724 UTC RMUW 674 32 3 1952 674 = 906 348 (followed by broken message)
 1748 UTC VVV RCV DE RJC20 QSA? QTC
 1807 UTC VVV RIT DE RJP99 QSA? QTC
 1808 UTC RJP99 637 26 3 2203 637 = FOR RJH74 RJH45 = 03181 99731 10477 22261
 1811 UTC VVV RMP DE RFE76 QSA? QTC
 1812 UTC RFE76 157 15 3 2210 157 = SML FOR RJH45 RJD38 = 03181 99562 10069 22252

8345 kHz, 04-10

1411 UTC VVV RMP DE RFE76 QSA?
 1414 UTC RMP DE RFE76 OK QYT4 QSA4
 1415 UTC RMP DE RFE76 QYT4 QMO
 1755 UTC RCV DE RMUW. RMUW OK QYT4 SK

8345 kHz, 05-10

0657 UTC VVV RMP DE RFE76 QSA?
 0658 UTC RMP DE RFE76 QYT4 QSX 10464

8345 kHz, 06-10

1951 UTC VVV RIT DE RFE76 QSA?
 1954 UTC RIT DE RFE76 QYT4 QLS1
 2054 UTC VVV RIT RMXV QSA?
 2100 UTC VVV RCV DE RMCW QSA? QTC
 2102 UTC RMCW 119 15 7 0100 119 = SML FOR RJE73 RJH45 = 06211 99408 10277 22262
 2107 UTC VVV RIT DE RHO62 QSA? QTC
 2109 UTC RHO62 119 20 7 0104 119 = SML FOR RJD38 RJH48 RJH74 = 06211 99685 71730 22243

8345 kHz, 07-10

0003 UTC VVV RCV DE RMCW QSA? QTC
 0005 UTC RMCW 475 15 7 0400 475 = SML FOR RJE73 RJH45 = 07001 99406 10273 22262
 0052 UTC VVV RCV DE RMCW QSA? QTC
 0053 UTC RMCW 121 28 7 0452 121 =
 07027 10100 18176 46384 00668 68025 79226 07728 18262 86758

94112 78079 55682 17395 44750 08308 62677 99774 88914 57389
 43724 72865 40449 21440 10032 99854 75892 07017 = + RMCW
 0242 UTC RCV DE RMCW QRU?
 0243 UTC RMCW OK QSU1 QSX 4146 QWH 4363
 0245 UTC RCV DE RMCW QRV (faded)
 0435 UTC VVV RCV DE RMCW QSA? QTC
 0436 UTC RMCW 250 27 7 0733 250 = SML =
 20429 26593 10828 01758 02626 17419 84483 26121 03081 35554
 45196 56817 31278 85815 84208 87018 60940 75987 5402? 67600
 13692 11938 67659 28176 13955 07025 = + RMCW
 0603 UTC VVV RCV RMCW QSA? QTC
 0604 UTC RMCW 301 18 7 1003 301 = SML FOR RJE73 RJH45 = 07061 99402 10264 22253
 1633 UTC VVV RIT DE RFE76 QSA?
 1634 UTC RIT DE RFE76 QYT4 QMG2 QMO
 1802 UTC VVV RCV DE RJC20 QSA? QTC
 1803 UTC RJC20 929 19 7 2200 929 (stepped on) 07181 99340 10324 22252
 1805 UTC VVV RIT DE RHO62 QSA? QTC
 1806 UTC RHO62 608 19 7 2203 608 = SML FOR RJD38 RJH48 RJH74 = 07181 99692 11697 22242
 1808 UTC VVV RCV DE RMCW QSA QTC
 1810 UTC RMCW 540 16 7 2208 540 = SML FOR RJE73 RJH45 = 07181 99384 10252 22243
 1813 UTC VVV RIT DE RFE76 QSA? QTC
 1814 UTC RFE76 235 22 7 2212 235 = SML FOR RJH45 RJH74 RJD38 = 07181 99496 70008 22200
 1901 UTC RMUW OK QYT4 QWH 7763 QSX 6243
 1909 UTC VVV RIT DE RFE76 QSA?
 1910 UTC RIT DE RFE76 QYT4 QLS
 1912 UTC RIT DE RFE76 OK QYT4 QWH 15463
 2108 UTC VVV RCV DE RMCW QSA? QTC
 2109 UTC RMCW 335 15 7 0106 335 = SML FOR RJE73 RJH45 = 07211 99379 10255 22243
 2112 UTC VVV RIT DE RJP99 QSA? QTC
 2113 UTC RJP99 344 18 7 0114 344 = FOR RJH74 RJH45 = 07211 99732 10503 22233
 2343 UTC VVV RCV DE RJC20 QSA? QTC
 2346 UTC RJC20 215 19 7 0327 215 = FOR RJH45 RJE73 = 08001 99340 10320 22262

8345 kHz, 08-10

0157 UTC VVV RIT DE RMXV QSA?
 0159 UTC RIT DE RMXV QYT9 QSA?
 0229 UTC RIT DE RMXV OK QYT9 QSX 10894
 0240 UTC RIT DE RMXV OK QYT9 QSX 4158
 0306 UTC VVV RIT DE RFE76 QSA? QTC
 0307 UTC RFE76 294 16 8 ??? 294 = SML FOR RJH45 RJH74 RJD38 = 08031 99496 70008 22200
 1806 UTC VVV RCV DE RJC20 QSA? QTC
 1807 UTC RJC20 887 19 8 2200 887 = FOR RJH45 RJE73 = 08181 99338 10320 22200
 1808 UTC VVV RCV DE RMCW QSA? QTC
 1813 UTC VVV RIT DE RFE76 QSA? QTC
 1814 UTC VVV RCV DE RMCW QSA? QTC
 1830 UTC RIT DE RAL68 QSA? QSA3
 1831 UTC RAL68 QYR5 NR 174 RPT
 1832 UTC VVV RCV DE RMCW QSA? QTC
 1837 UTC RMCW 644 16 8 2200 644 = SML FOR RJE73 RJH45 = 08181 99349 10269 22233
 1901 UTC VVV RCV DE RMCW QSA? QTC
 1902 UTC RMCW 714 46 8 2259 714 = SML FOR RJE73 RJH45 = KKXX 08104 1810/ 13449 02658 88872
 20000 32369 43917 15358
 20010 32368 43918 15359
 20020 32368 43929 15362
 20030 32205 43982 15340
 20050 31717 43877 15185
 20075 31610 43877 15157
 20100 31572 43876 15150
 20150 31520 43873 15141
 20200 31467 43866 15133 08042 = + RMCW

1909 UTC RIT DE RAL68 QSA3
 2101 UTC VVV RCV DE RMCW QSA? QTC
 2102 UTC RMCW 430 16 9 0101 430 = SML FOR RJE73 RJH45 = 08211 99346 10269 22233
 2342 UTC VVV RIT DE RJP99 QSA? QTC
 2343 UTC RJP99 437 48 9 0339 437 = FOR RMS UTC RIR2 RJD89 RJE73 = (broken message, presumed TESAC)
 2344 UTC VVV RCV DE RJC20 QSA? QTC
 2349 UTC VVV RCV DE RMCW QSA? QTC

8345 kHz, 09-10

0112 UTC RIT DE RFE76 QYT4 QSX 7404
 0136 UTC RIT RFE76 QYT4 QMO
 1713 UTC VVV RMP DE RFE76 QSA?
 1801 UTC VVV RCV DE RJC20 QSA? QTC
 1802 UTC RJC20 988 19 9 2200 988 = FOR RJH45 RJ??? = 09181 99342 10327 22200
 1804 UTC VVV RCV DE RMCW QSA? QTC
 1809 UTC RMCW 457 18 9 2200 457 = SML FOR RJE73 RJH45 = 09181 99325 10408 22232
 1824 UTC VVV RCV DE RMCW QSA? QTC
 1826 UTC RMCW 638 46 9 2223 638 = SML FOR RJE73 RJH45 =
 KKXXX ?9040 1750/ ??234 03059 88872
 20000 32654 43411 15424
 20010 32628 43915 15420
 20020 32615 43892 15416
 20030 32607 43894 15416
 20050 32221 43854 15312
 20075 31908 43867 15245
 20100 31839 43896 15229
 20150 31761 43884 15216
 20200 31654 43881 15192
 09050 = + RMCW
 1842 UTC VVV RIT DE RFE76 QSA?
 1843 UTC RIT DE RFE76 QYT4?
 1855 UTC RIT DE RFE76 OK QYT4 QSX 15363 QWH 10308
 2101 UTC VVV RCV DE RMCW QSA? QTC

8345 kHz, 11-10

0001 UTC VVV RCV DE RMCW QSA? QTC
 0011 UTC VVV RCV DE RMCW QSA? QTC
 0012 UTC VVV RIT DE RFE76 QSA? QTC
 0015 UTC RMCW 777 17 11 0400 777 = SML FOR RJE73 RJH45 = 11001 99316 10322 22200
 0051 UTC VVV RCV DE RMCW QSA? QTC
 0058 UTC RMCW 117 25 11 0450 117 = (5fg message)
 0217 UTC VVV RIT DE RME81 QSA? QTC
 0218 UTC RME81 326 30 11 0540 326 = SML FOR RIW RMP = 11111 67139 75894 11026 = + RME81
 0258 UTC VVV RCV DE RMCW QSA? QTC
 0259 UTC RMCW 154 16 11 0700 154 = SML FOR RJE73 RJH45 = 11031 99316 10322 22200
 1801 UTC VVV RCV DE RMCW QSA? QTC
 1802 UTC RMCW 801 15 11 2200 801 = SML FOR RJE73 RJH45 = 11151 99316 10322 22200
 1947 UTC RIT DE RFE76 QYT4 QMO
 2035 UTC VVV RIT DE RFE76 QSA? QTC
 2036 UTC RFE76 436 46 12 0025 436 = FOR RJH45 RJH74 RJD38 = KKXX 11104 1825/ 74723 00659 88881
 20000 31671 43565
 20010 31652 43566
 20032 31618 43566
 20050 31496 43560
 20075 31232 43572
 20100 31225 43581
 20110 31206 43580
 20125 31198 43582
 20200 31173 43582
 20300 31150 43576

20400 31132 43574
 20528 31100 43574
 12042 = + RFE76
 2103 UTC RMCW = SML FOR RJE73 RJH45 = 11211 99316 10322 22200
 2105 UTC RFE76 373 16 12 0104 373 = SML FOR RJH45 RJH74 RJD38 = 11211 99470 70072 22222

8345 kHz 13-10

1801 UTC RCV DE RJC20 293 19 13 2200 293 = FOR RJH45 RJE73 =
 13181 99348 10303 41597 33206 10190 40159 54000 70101 83300 22272 00230 2///// 399// 88000 80000 13016
 = + RJC20 K
 1804 UTC RMCW Donuzlav. RCV DE RMCW 819 15 13 2201 819 = SML FOR RJE73 RJH45 = 13181 99316 10342 42/98
 93004 10242 40160 53008 22221 00270 2///// 13011 = + RMCW K

8345 kHz, 16-10

1808 UTC RMP DE RME81 QSA? QTC K

8345 kHz, 19-10

1643 UTC VVV RIT DE RFE76 QSA?
 1644 UTC RIT DE RFE76 QYT4 QSX 10432
 1802 UTC VVV RIT DE RFE76 QSA? QTC
 1803 UTC RFE76 514 19 19 2201 514 = SML FOR RJH45 RJE73 = 19181 99379 10087 22222
 1805 UTC VVV RCV DE RJC20 QSA? QTC
 1819 UTC VVV RCV DE RHL80 QSA?
 1830 UTC RCV DE RHL80 QSA3 QRU
 1831 UTC RHL80 OK QAP
 1833 UTC RCV DE RMUW QSA1
 1834 UTC RMUW QYT4 QSX 6243 QWH 5372
 1845 UTC VVV RIT DE RFE76 QSA? QTC
 1846 UTC RFE76 926 33 19 2243 926 = FOR RJH45 RJE73 = KKXX 19104 1800/ 13755 00843 88881
 20000 32432 43816
 20032 32407 43824
 20075 31535 43807
 20125 31399 43836
 20131 31420 43852
 20141 31398 43846
 20149 31421 43863
 20518 31396 43887
 19030 = + RFE76
 1849 UTC RCV DE RMUW QYT4 QSA4
 1905 UTC RCV DE RHL80 QYT4 QSX 6912
 1911 UTC RMUW QYT4 QSX 6243 QWH 5372/7201
 1925 UTC RHL80 OK QYT4 QWH 7642
 1931 UTC RIT DE RFE76 QSA? QYT4 QMO
 1954 UTC RIT DE RFE76 QYT4 QWH 6243
 1955 UTC RIT DE RFE76 OK QYT4 QSX 6238
 2005 UTC RIT DE RFE76 QYT4 QSX 8599
 2016 UTC RIT DE RFE76 QYT4 QSX 8440
 2102 UTC VVV RCV DE RMCW QSA? QTC
 2104 UTC RMCW 283 15 20 01(stopped sending)
 2120 UTC VVV RIT DE RFE76 QSA? QTC
 2121 UTC RFE76 477 15 20 0112 477 = SML FOR RJH45 RJE73 = 19211 99379 10091 22222

8345 kHz, 20-10

0027 UTC VVV RIT DE RFE76 QSA? QTC
 0029 UTC RFE76 131 15 20 0420 131 = SML FOR RJH45 RJH74 = 20001 99379 10097 22222
 0043 UTC VVV RIT DE RFE76 QSA?
 0044 UTC RFE76 OK QYT4 QSX 8599
 0100 UTC ... RFH71 OK QYT4 QSX 6302
 0215 UTC VVV RIT DE RFE76 QSA? QTC
 0216 UTC RFE76 334 42 20 0615 334 = FOR RJH45 RJE73 = KKXX 20104 0020/ 13755 00943 88881

20000 32393 43836
 20023 32370 43824
 20027 31938 43718
 20040 31600 43788
 20050 31546 43811
 20075 31439 43836
 20091 31433 43854
 20100 31423 43861
 20150 31423 43882
 20400 31385 43883
 20482 31361 43880
 20039 = + RFE76
 0323 UTC VVV RIT DE RFE76 QSA? QTC
 0324 UTC RFE76 942 15 20 0718 942 = SML FOR RJH45 RJE73 = 20031 99377 10101 22222
 0604 UTC VVV RIT DE RFE76 QSA? QTC
 0605 UTC RFE76 614 15 20 1003 614 = SML FOR RJH45 RJE73 = 20061 99376 10106 22212
 1736 UTC VVV RIT DE RFE76 QSA?
 1738 UTC RIT DE RFE76 QYT4 QLS

8345 kHz, 22-10

0241 UTC XXX XXX RKS RKS KAFARSIT 65397 55025 94306 00415 00111 23873 09659 00816 10420
 0242 UTC XXX XXX RKS RKS KAFARSIT 65397 55025 94306 00415 00111 23873 09659 00816 10420
 1710 UTC VVV RIW DE RGB57 QSA?
 1710 UTC VVV RIW DE RGV87 QSA? (stood on each other, RGV87 tries many times)
 1757 UTC VVV RCV DE RJC20 QSA? QTC
 1758 UTC RJC20 919 19 22 2157 919 = FOR RJH45 RJE73 = 22181 99369 10216 22200
 1806 UTC RCV DE RMGB QSA3 QRV
 1810 UTC RMGB NR 667 RPT 9 21 RMGB 667 RPT 10 21
 1811 UTC RMGB QSL 667
 1815 UTC VVVs for about 1.5 mins
 1817 UTC VVV RCV DE RMCW QSA? QTC
 1818 UTC VVV RIW DE RGV57 QSA?
 1821 UTC VVV RIW DE RGV57 QSA?
 1837 UTC VVV RCV DE RMGB QSA? QTC
 1838 UTC RMGB 197 4 22 2235 197 = SML = 04322 22230 23003 = + RMGB
 1944 UTC VVV RCV DE RMCW QSA? QTC
 1945 UTC RMCW 592 62 22 2343 592 = SML FOR RJE73 RJH45 = KKXXX 22104 1820/ 13532 02852 88872
 20000 32359 43920 15355
 20010 32256 43521 15356
 20020 32357 43938 15360
 20030 32354 43937 15361
 20050 31746 43878 15194
 20075 31635 43880 15165
 20100 31587 43879 15154
 20150 31534 43875 15146
 20200 31494 43873 15141
 20250 31453 43867 15136
 20300 31436 43866 15139
 20400 31410 43863 15147
 20500 31399 43861 15157
 22058 = + RMCW
 2113 UTC VVV RCV DE RMCW QSA?
 2114 UTC VVV RCV DE RMCW QSA? QTC
 2115 UTC RMCW 482 16 22 0115 482 = for rje73 rjh45 = 22211 99356 10284 22263

8345 kHz, 23-10

0001 UTC VVV RCV DE RMCW QSA? QTC
 0002 UTC RMCW 123 16 23 0400 123 = SML FOR RJE73 RJH45 = 23001 99357 10278 22263
 0052 UTC VVV RCV DE RMCW QSA? QTC
 0053 UTC RMCW 660 28 23 0450 660 =

02817 19954 01574 31702 49178
 71677 51365 44049 97336 00734
 67545 37767 39058 67914 34138
 97676 74272 85937 68279 15201
 40210 42277 50118 51420 72917
 88488 04490 23028 = + RMCW
 0458 UTC VVV RCV DE RMCW QSA? QTC
 0459 UTC RMCW 990 59 23 0858 990 = SML FOR RJE73 RJH45 = KKXXX (too faint to copy fully)
 1805 UTC VVV RIT DE RFE76 QSA?
 1805 UTC VVV RCV DE RMCW QSA? QTC
 1810 UTC RMCW 760 15 23 2202 760 = SML FOR RJE73 RJH45 = 23181 99381 10254 22273
 1811 UTC VVV RCV DE RJC20 QSA? QTC
 1814 UTC RJC20 971 19 23 2207 971 = FOR RJH45 RJE73 = 23181 99369 10216 22200
 1820 UTC RCV DE RMCW QSA2 QRV
 1821 UTC RMCW NR 889 RPT AA 13 (tries many times)
 1830 UTC RCV DE RMCW QSA NO QSX 5224
 1831 UTC RCV DE RMCW QSA1/ NO QDW?
 1833 UTC RCV DE RMCW QSA1 QRK1
 1837 UTC VVV RCV DE RFH71 QSA?
 1901 UTC VVV RCV DE RMCW QSA?
 1902 UTC RCV DE RMCW QSA3 NR 889 RPT ALL
 1910 UTC RMCW NR 889 RPT 5 6
 1912 UTC RMCW NR 889 RPT 5 7
 1913 UTC RMCW NR 889 QLQ
 1915 UTC RMCW NR 889 RPT BK 10 20
 1919 UTC RMCW QSL 889
 1953 UTC VVV RCV DE RMCW QSA? QTC
 1954 UTC RMCW 818 4 23 2343 818 = SML = 10542 32319 23002 = + RMCW

8345 kHz, 24-10

0005 UTC VVV RCV DE RMCW QSA? QTC
 0007 UTC RMCW 273 15 24 0400 273 = SML FOR RJE73 RJH45 = 24001 99389 10249 22272
 0013 UTC VVV RMP DE RME81 QSA? QTC
 0016 UTC RME81 ??? 17 24 0401 ??? = SML FOR RJH45 RJD38 = 24001 99551 10132 22252
 0046 UTC VVV RCV DE RMCW QSA? QTC
 0047 UTC RMCW 963 28 23 0445 963 =
 40321 63869 13550 54427 42527
 11287 35793 66717 60045 51413
 11298 01751 47103 98071 70694
 86171 29005 87106 86275 25056
 56308 35930 45293 26086 46412
 38254 69913 24027 = + RMCW
 0202 UTC VVV RMP DE RME81 QSA? QTC
 0204 UTC VVV RIT DE RME81 QSA? QTC
 0206 UTC RME81 353 35 24 0602 353 = SML FOR RIW RMP =
 11111 21457 62621 53260 69926
 18169 89844 71548 31735 80538
 35203 44709 33993 95248 59262
 12432 03151 21465 10022 02585
 14336 53012 68286 37612 12094
 38084 40904 54131 78618 32241
 11629 24031 = + RME81
 0258 UTC VVV RCV DE RMCW QSA? QTC
 0259 UTC RMCW 206 15 24 0655 206 = SML FOR RJE73 RJH45 = 24031 99394 10253 22212
 0358 UTC RCV DE RFH71 QYT4 QWH 4591 QSA?
 0541 UTC VVV RCV DE RMCW QSA? QTC
 0615 UTC VVV RMP DE RME81 QSA? QTC
 0625 UTC RMP DE RHI99 QYT4 QLS
 0628 UTC RMP DE RME81 QSA1 QTC
 0629 UTC RME81 641 17 24 1010 641 = SML FOR RJH45 RJD38 = 24061 99556 10128 22212

0630 UTC RMP DE RHI99 QYT9 QSX 9812
 0654 UTC RMP DE RHI99 OK QYT9 QSX 9812 QWH 10492
 1719 UTC RIT DE RAL59 QSA2
 1722 UTC RAL59 OK QSU1 QSX 16360 QWH 8785
 1735 UTC RAL59 QSU1 QSX 6510 OK?
 1738 UTC RAL59 QSU1 QSX 13095 OK?
 1754 UTC VVV RCV DE RJC20 QSA? QTC
 1755 UTC RJC20 218 19 24 2151 218 = FOR RJH45 RJE73 = 24181 99366 10215 22252
 1803 UTC VVV RCV DE RMGB QSA? QTC
 1804 UTC RMGB 423 18 24 22(steped on) 24181 99358 10238 22242
 1807 UTC VVV RCV DE RMCW QSA? QTC
 1809 UTC VVV RMP DE RME81 QSA? QTC
 1810 UTC RME81 749 17 24 2202 749 = SML FOR RJH45 RJD38 = 24181 99571 10117 22272
 1824 UTC RCV DE RFE76 OK QYT4 QSX 7322 (continues setting up QYT4)
 1725 UTC VVV RCV DE RMCW QSA? QTC
 1833 UTC VVV RMP DE RHI99 QSA?
 1834 UTC RMP DE RHI99 QYT4 QSX 11068
 1840 UTC RMP DE RHI99 OK QYT4 QWH 8302
 1849 UTC RMP DE RHI99 QYT4 QMG1
 2231 UTC RMP DE RME81 NR 335 R?
 2242 UTC RME81 335 16 25 0205 335 = SML FOR RMP RIW =
 11111 87959 83252 00796 18507
 16684 82180 34972 53299 89611
 63975 03923 25012 = + RME81

8345 kHz, 25-10

0003 UTC RMP DE RHI99 QSA4
 0203 UTC VVV RIT DE RMI93 QSA? QTC
 0204 UTC RMI93 881 35 25 0540 881 = SML FOR RIW RIT RMP = 11111 06516 58548 25030 = + RMI93
 0440 UTC VVV RCV DE RMCW QSA? QTC
 0441 UTC RMCW 737 28 25 0740 737 = SML = 03669 (faded)
 0448 UTC VVV RIT DE RMI93 QSA? QTC
 0450 UTC RMI93 427 14 25 0845 427 = FOR (stopped)
 0503 UTC RCV DE RMCW NR 737 COR PBL = 737 27 25 0840 737
 0602 UTC RCV DE RMCW QSA? QTC. RCV DE RMGB QSA? QTC
 0604 UTC RMGB 163 19 25 1000 163 = SML FOR RJH45 RJE73 = 25061 99351 10235 22222
 0606 UTC RMCW 182 19 25 1000 182 = SML FOR RJE73 RJH45 = 25061 99411 10290 22212
 0611 UTC RCV DE RMCW QSA3 QRV
 0615 UTC RMCW QSL 213
 0634 UTC VVV RCV DE RMCW QSA? QTC
 0635 UTC RMCW 808 29 25 1031 808 = SML =
 03311 60566 02968 62960 04025
 77032 34841 50494 52655 54173
 19??8 96641 17056 54831 57755
 29221 09284 56397 52562 88666
 ?6945 2???? 22444 11177 14987
 94993 72381 25027 = + RMCW
 0717 UTC RMP DE RHI99 QYT4 QSX 11068
 1737 UTC RCV DE RMCW QSA2 QRV
 1740 UTC RCV DE RMCW NR 437 RPT AA 10
 1743 UTC RCV DE RMCW NR 437 RPT AA 20. RCV DE RMCW QSA1 /NO QDW?
 1746 UTC RCV DE RMCW QSA1 QRK 1/2
 1748 UTC RCV DE RMCW NR 437 RPT AA 20
 1754 UTC VVV RCV DE RJC20 QSA? QTC
 1756 UTC RJC20 770 19 25 2153 770 = FOR RJH45 RJE73 = 25181 99350 10242 22232
 1802 UTC VVV RCV DE RMGB QSA? QTC
 1803 UTC RMGB 989 17 25 2200 989 = SML FOR RJH45 RJE73 = 25181 9935010239 22262
 1805 UTC VVV RMP DE RME81 QSA? QTC
 1809 UTC RME81 617 17 25 2202 617 = SML FOR RJH45 RJD38 = 25181 99576 10111 22200
 2353 UTC RMI93 149 14 26 0350 149 = FOR RJH45 RJH74 = 26001 99707 10181 22262

8345 kHz, 26-10

0000 UTC VVV RCV DE RMCW QSA? QTC
0008 UTC VVV RCV DE RMCW QSA? QTC
0009 UTC RMCW 129 15 26 0300 129 = SML FOR RJE73 RJH45 = 26001 99425 10307 22211
0036 UTC VVV RCV DE RJC20 QSA? QTC
0037 UTC RJC20 176 19 26 0327 176 = FOR RJH45 RJE73 = 26001 99341 10243 22262
0142 UTC VVV RCV DE RMCW QSA? QTC
0146 UTC VVV RCV DE RMCW QSA? QTC
0201 UTC VVV RCV DE RMCW QSA? QTC (great signal for me)
0319 UTC RCV DE RFE76 (very faint) 26031 99370 10125 22272 (I think)
0351 UTC VVV RCV DE RGR35 QSA?
0429 UTC RIT DE RMI93 QSA2 (sets up QYT4)
0552 UTC VVV RIT DE RMI93 QSA? QTC
0553 UTC RMI93 967 14 26 0845 967 = FOR RJH45 (stopped)
0554 UTC RIT DE RMI93 OK QWK 6290
0609 UTC VVV RCV DE RFE76 QSA? QTC
0619 UTC VVV RIT DE RMI93 QSA? QTC
1802 UTC VVV RCV DE RMGB QSA? QTC
1803 UTC RMGB (stepped on) RJH45 RJE73 = 26181 99349 10243 22200
1806 UTC VVV RIT DE RMI93 QSA? (sets up QYT4)
1808 UTC VVV RMP DE RME81 QSA? QTC
1809 UTC RME81 485 17 (stopped)
1812 UTC RMI93 234 14 26 2100 234 = FOR RJH45 RJH74 = 26181 99492 10131 22252
1816 UTC RME81 485 17 26 2101 485 = SML FOR RJH45 RJD38 = 26181 99576 10111 22200
1919 UTC VVV RCV DE RJC20 QSA? QTC
1920 UTC RJC20 427 19 26 2235 427 = FOR RJH45 RJE73 = 26181 99349 10242 22261
2106 UTC VVV RMP DE RHI99 QSA?
2347 UTC VVV RIT DE RMI93 QSA? QTC
2350 UTC RMI93 258 14 27 0144 258 = FOR RJH45 RJH74 = 27001 99678 10121 22251

8345 kHz, 27-10

0032 UTC VVV RCV DE RJC20 QSA? QTC
0033 UTC RJC20 539 19 27 0325 539 = FOR RJH45 RJE73 = 27001 99341 10243 22231
0119 UTC VVV RIT DE RMI93 QSA?
0120 UTC RMI93 QYT4 QMO OK?
0142 UTC VVV RIT DE RMI93 QSA?
0143 UTC RMI93 QYT4 QSX 8599 OK?
0400 UTC VVV RCV DE RFE76 QSA? QTC
0401 UTC RFE76 563 16 27 0632 563 = SML FOR RJH45 RJE73 = 27041 99379 10087 22262
0458 UTC VVV RIT DE RMI93 QSA?
0459 UTC RIT DE RMI93 QYT4 QSX 11356
0524 UTC RIT DE RMI93 QYT4 QSX 10432
0551 UTC VVV RIT DE RMI93 QSA? QTC (finally gets a response after 15 mins of trying)
0606 UTC RMI93 141 14 27 0845 141 = FOR RJH45 RJH74 = 27061 99(stopped)
0618 UTC VVV RCV DE RFE76 QSA? QTC
0620 UTC RFE76 864 16 27 0911 864 = SML FOR RJH45 RJE73 = 27061 99378 10081 22262
0718 UTC VVV RMP DE RHI99 QSA?
0719 UTC RMP DE RHI99 QSA3 QYT4 QSA?
0725 UTC RMP DE RHI99 OK QYT4 QWH 16603
0734 UTC RMP DE RHI99 OK QYT4 QWH 18952
0801 UTC RMP DE RHI99 QYT4 QSX 11068
0822 UTC RMP DE RHI99 QSA2 QYT4 QSX 20920
0845 UTC RMP DE RHI99 OK QYT4 QSX 8338
1706 UTC RMP DE RHI99 QYT4 QSX 10589
1720 UTC RMP DE RHI99 QYT4 QSX 10248
1753 UTC VVV RIT DE RME93 QSA? QTC
1754 UTC RME93 723 14 27 2045 723 = FOR RJH45 RJH74 = 27181 99680 10095 22251
1801 UTC VVV RCV DE RMGB QSA? QTC
1802 UTC RMGB 541 17 27 2100 541 = SML FOR RJH45 RJE73 = 27181 99349 10243 22200

1804 UTC VVV RMP DE RME81 QSA? QTC
 1807 UTC RME81 148 17 27 2101 148 = SML FOR RJH45 RJD38 = 27181 99576 10111 22200
 2333 UTC RMP DE RME81 QSA1 QRV
 2349 UTC VVV RIT DE RMI93 QSA? QTC
 2350 UTC RMI93 788 14 28 0240 788 = FOR RJH45 RJH74 = 28001 99674 10089 22251

8345 kHz, 28-10

0204 UTC VVV RIT RMI93 QSA?
 0206 UTC VVV RCV DE RFE76 QSA?
 0207 UTC RFE76 QYT4 QSX 7447
 0207 UTC RMI93 QYT4 QMO OK?
 0310 UTC RFE76 253 17 28 0605 253 = SML FOR RJH45 RJE73 = 28061(sic) 99374 10046 22262
 0354 UTC RIT DE RMI93 QTC
 0355 UTC RMI93 443 28 0650 443 = SML FOR RIW ??? =
 11111 35522 14549 30544 12179
 48410 24346 01800 13874 64226
 72331 58227 98603 35141 54917
 11438 87872 48899 61270 99465
 59252 82200 64729 30683 56364
 67825 76400 14714 16653 28029
 = + RMI93
 0611 UTC VVV RCV DE RFE76 QSA? QTC
 0612 UTC RFE76 526 16 28 0904 526 = SML FOR RJH45 RJE73 = 28061 99373 10041 22262
 0724 UTC VVV RIT DE RMI93 QSA?
 0956 UTC RMP DE RME81 QSA1 QRV
 1011 UTC RME81 QSL 123
 1205 UTC RME81 429 17 28 1501 429 = SML FOR RJH45 RJD38 = 28122(sic) 99576 10100 22272
 1252 UTC RMP DE RHI99 QSA4
 1304 UTC RMP DE RHI99 QYT4 QSX 127769(sic)/12769

8345 kHz, 29-10

2347 UTC VVV RMP DE RMI93 QSA?
 2352 UTC VVV RIT DE RMI93 QSA? QTC
 2355 UTC RMI93 273 15 30 0245 273 = FOR RJH45 RJH74 RJD38 = 30001 99608 10032 22242

8345 kHz, 30-10

0010 UTC VVV RCV DE RFE76 QSA? QTC
 0016 UTC RMP DE RMI93 QSA1 QRV
 0243 UTC VVV RMP DE RMI93 QSA? QTC
 0244 UTC VVV RMP DE RAL59 QSA1
 0246 UTC RAL59 QSL 340
 0247 UTC RAL59 QSL 466 NO
 0250 UTC RAL59 QRV
 0256 UTC RAL59 NR 466 RPT 7 9 10 12
 0258 UTC RAL59 NR 466 RPT 9 13 32 38
 0302 UTC RAL59 QSL 466
 0319 UTC RMP DE RMI93 QSA1 QTC
 0556 UTC VVV RMP DE RMI93 QSA? QTC
 0651 UTC VVV RIT DE RHI99
 0653 UTC RIT DE RHI99 QYT4 QSX 9483 (continues with QYT4 setup)
 0826 UTC RIT DE RHI99 RPT
 0827 UTC RIT DE RHI99 QYT4 QSX 20138 (continues with QYT4 setup)
 1803 UTC VVV RCV DE RMGB QSA? QTC
 1806 UTC VVV RMP DE RMI93 QSA? QTC
 1807 UTC RMGB 985 17 30 2100 985 = SML FOR RJH45 RJE73 = 30181 99349 10355 22200
 1811 UTC RMI93 773 14 30 2100 773 = FOR RJH45 RJD38 = 30181 99585 22232
 1822 UTC VVV RMP DE RME81 QSA? QTC
 1823 UTC RME81 281 17 30 2104 281 = SML FOR RJH45 RJD38 = 30181 99586 10046 22232
 1854 UTC RCV DE RMGB QSA?
 1914 UTC VVV RCV DE RMUW QSA? QTC
 1919 UTC RMUW 892 19 30 2155 892 = SML =

54174 98772 35690 39326 34072
 41640 60565 17178 50611 35310
 25107 26395 ?4969 20664 35627
 36742 68117 30017 = + RMUW
 2050 UTC RIT DE RHI99 QYT4 QSX 10308
 2111 UTC RIT DE RHI99 QYT4 QSX 12752
 2115 UTC RCV DE RFE76 QSA2
 2116 UTC RFE76 751 15 31 0004 751 = SML FOR RJH45 RJE73 = 30211 99361 70069 22262

8345 kHz, 31-10

1757 UTC VVV RMP DE RMI93 QSA? QTC
 1803 UTC VVV RCV DE RMGB QSA? QTC
 1804 UTC RMGB 960 17 31 2100 960 = SML FOR RJH45 ??? = 31181 99354 10353 22272
 1805 UTC RMI93 321 14 31 2045 324 = FOR RJH45 RJD38 = 31181 99578 10107 22232
 1811 UTC VVV RMP DE RME81 QSA? QTC
 1816 UTC RMI81 184 17 31 2102 184 = SML FOR RJH45 RJD38 = 31181 99577 10108 22232

12464 kHz, 03-10

1510 UTC RIW DE RMRV QYT4 QSX 19056
 1520 UTC RMRV OK QYT4 QWH 12414 QSX 19056 FM RAA

12464 kHz, 04-10

1208 UTC VVV RIT DE RFE76 QSA? QTC K
 1209 UTC RFE76 373 28 4 1605 373 = FOR RJE45 RJD38 = KKXX 04104 0815/ 15416 00444 88881
 (too weak to copy message correctly)
 1221 UTC RFE76 QTC K
 1222 UTC RFE76 237 20 4 1610 237 = SML FOR RJE45 RJD38 = 04121 99538 10040 22252
 1408 UTC RJT22 91 555 LEPENX 4519 0358
 1410 UTC RJC20 91 555 LEPENX 4519 0358
 1506 UTC VVV RMP DE RFE76 QSA? QTC
 1507 UTC RFE76 544 20 4 1904 544 = SML FOR RJH45 RJD38 = 04151 99535 10045 22252
 1513 UTC RIW DE RMRV
 1514 UTC RMRV QYT4 QSX 9056 QWH 12414
 1525 UTC RMRV OK QYT4 QSA NO QCM
 1537 UTC VVV RMP DE RFE76 QSA?
 1604 UTC VVV RMP DE RFE76 QSA3 (sets up QYT4)
 1627 UTC RCV DE RMUW QSA?
 1629 UTC RMRV OK QYT4 QSX 8380 QWH 7748
 1754 UTC VVV RIW DE RMRV QSA?
 1803 UTC VVV RIT DE RHO62 QSA? QTC
 1804 UTC RHO62 344 19 4 2203 344 = SML FOR RJD38 RJH48 RJH74 = 04181 99716 71763 22283
 2000 UTC VVV RIT DE RHO62 QSA? QTC (no message heard)

12464 kHz, 05-10

1136 UTC RMP DE RFE76 QYT4 QSX 8596 OK?
 1147 UTC RMP DE RFE76 QYT4 QSX 6964 OK?
 1150 UTC RMP DE RFE76 (Sibiryakov)
 1158 UTC VVV RIW DE RFE76 QSA?
 1201 UTC RFE76 OK QYT4 FM RAA
 1205 UTC VVV RCV DE RMCW (Donuzlav)
 1208 UTC RIT DE RFE76 RFE76 QSA ? QTC K (Sibiryakov)
 1209 UTC RFE76 OK QYT4 QWH 9700/11703 QSX 8330/12414
 1211 UTC RFE76 OK QYT4 QSX 9700/11703 QWH 8330/12414
 1213 UTC QYT4 QSX 97?? /117?3 QWH 833?/12414 (Sibiryakov)
 1213 UTC ?? DE RMCW QSA?
 1258 UTC VVV RCV DE RMCW QSA? QTC
 1259 UTC RMCW 373 18 05 1605 373 = FOR RJE73 RJH45 = 05121 99440 10326 22243
 1311 UTC RIW DE RFE76 QYT4 QMO
 1317 UTC RIW DE RFE76 OK QCM QYT4 QCM (and continues for most of the afternoon)
 1320 UTC RMCW 91 775 WSHOD 6273 8854

1322 UTC RJT22 91 775 WSHOD 6273 8854
 1346 UTC VVV RCV DE RMCW QSA? QTC
 1347 UTC RMCW 355 36 5 1741 355 =
 70042 78121 06590 96768 65116
 68067 43039 18309 17097 24990
 14073 16583 36326 21403 55411
 08962 14797 42816 64267 74781
 48986 66228 60435 61568 49320
 80070 15465 10436 30948 8?239
 67211 95185 37249 37361 95517
 05035 = + RMCW
 1453 UTC RIW DE RMRV QYT4 QSX 19056
 1505 UTC RCV DE RMCW NR 931 RPT PBL
 1507 UTC RMCW QSL 931
 1508 UTC RMRV OK QYT4 QSX 19056 QWH 16603 FM RAA
 1513 UTC VVV RCV DE RMCW QSA? QTC
 1514 UTC RMCW 160 18 5 1910 160 = SML FOR RJE73 RJH45 = 05151 99436 10321 22253
 1544 UTC VVV RCV DE RMCW QSA? QTC
 1545 UTC RMCW 375 4 5 1940 375 = SML = 44370 51905 05002 = + RMCW
 1651 UTC VVV RCV DE RMCW QSA? QTC
 1807 UTC VVV RCV DE RMCW QSA? QTC
 1810 UTC VVV RCV DE RJC20 QSA? QTC
 1812 UTC VVV RIT DE RFE76 QSA? QTC
 1814 UTC RFE76 563 19 5 2211 563 = SML FOR RJH45 RJD38 RJH74 = 05181 99498 70006 22252

12464 kHz, 07-10

1225 UTC RMCW Donuzlav. SML FOR RJE73 RJH45 = 07121 99394 10254...22253...
 1454 UTC VVV RCV DE RMCW QSA? QTC
 1456 UTC RMCW 999 18 7 1850 999 = SML FOR RJE73 RJH45 = 07151 99390 10248 22252
 1507 UTC VVV RIW DE RMRV QSA?
 1510 UTC RMRV QYT4 QSX 19056

12464 kHz, 08-10

1204 UTC RMCW Donuzlav. RCV RCV DE RMCW RMCW QSA? QTC K
 1204 UTC RMCW Donuzlav. RCV RCV DE RMCW RMCW QSA? QTC K
 1212 UTC RFE76 Sibiriyakov. RIT RIT DE RFE76 RFE76 QSA? QTC K
 1228 UTC VVV RIW RIW RIW DE RME81 RME81 QSA? K
 1240 UTC RMRV Smolny. RIW RIW RIW DE RMRV RMRV QSA? K
 1250 UTC RMCW Donuzlav. 75T 37 8 1644 75T = TT254 25T42 71549...=+RMCW K
 1212 UTC RFE76 Sibiriyakov. RIT RIT DE RFE76 RFE76 QSA? QTC K
 1228 UTC VVV RIW RIW RIW DE RME81 RME81 QSA? K
 1240 UTC RMRV Smolny. RIW RIW RIW DE RMRV RMRV QSA? K
 1250 UTC RMCW Donuzlav. 75T 37 8 1644 75T = TT254 25T42 71549...=+RMCW K

12464 kHz, 09-10

1215 UTC VVV RIT RIT RIT DE RMWT RMWT QSA? QTC K
 1218 UTC 771 19 9 1551 771 ...99548 10198...22242...AR RMWT K <https://goo.gl/maps/fwcRV>
 1215 UTC VVV RIT RIT RIT DE RMWT RMWT QSA? QTC K
 1218 UTC 771 19 9 1551 771 ...99548 10198...22242...AR RMWT K

12464 kHz, 10-10

0914 UTC RFE76 916 22 11 1308 916 = SML FOR RJH45 RJH74 RJD38 = 11091 99487 70059 42497 52608 10162
 40128 53023 85200 22242 00161 20502 32534 40805 50704 88000 80000 11017 = AR RFE76 K
 1203 UTC RMCW Donuzlav. 99316 10321 ...22200 ... =+RMCW K
 1203 UTC RMCW Donuzlav. 99316 10321 ...22200 ... =+RMCW K

12464 kHz, 11-10

1207 UTC RFE76 Sibiriyakov. RIT DE RFE76 QSA? QTC K
 1207 UTC RFE76 Sibiriyakov. RIT DE RFE76 QSA? QTC K

12464 kHz, 13-10

1206 UTC RMCW Donuzlav. VVV RCV DE RMCW QSA? QTC K
 1809 UTC RFE76 Sibiryakov. RIT DE RFE76 317 22 13 2205 317 = SML FOR RJH45 RJH74 RJD38 = 13181 99408 70101
 41397 62608 10176 40043 52016 71582 83944 22242 00195 20503 322// 41006 88000 80000 13017 = +
 RFE76 K
 1654 UTC 81127 BATRAÖIHA 1425 9855 KOÖECHB 5663 1553 K

12464 kHz, 14-10

1807 UTC RIT DE RFE76 RFE76 QSA? QTC K

12464 kHz, 17-10

1205 UTC RFE76 Sibiryakov. 829 17 17 1610 829 = ...99365 70011...22222

12464 kHz, 21-10

1208 UTC RMCW "Donuzlav" ...99358 10348...

12464 kHz, 22-10

1203 UTC RMCW "Donuzlav". QTC 81 18 22 1601 81 = ...99355 10303...
 1213 UTC RMCW 602 18 23 1600 602 = SML FOR RJE73 RJH45 = 23121 99372 10261 22273

12464 kHz, 25-10

1205 UTC RMCW "Donuzlav" SML FOR RJE73 RJH45 = ...99417 10296...22212
 1207 UTC RMGB "Iman". SML FOR RJE73 RJH45 = ...99417 10296...22212
 1210 UTC RJC20: SML FOR RJH45 RJE73 = ...99351 10235...22232

12464 kHz, 26-10

1207 UTC RFE76 "Sibiryakov" RCV DE RFE76 QYT4 QSA 3/4 QSA? K

12464 kHz, 30-10

1154 UTC VVV RIT DE RHI99 QSA?
 1159 UTC RIT DE RHI99 QYT4 QSA 16948
 1202 UTC VVV RCV DE RMGB QSA? QTC
 1203 UTC (stepped on by RHI99) RMGB RJH45 RJE73 = 30121 99349 10355 22222

 1248 UTC RFE76 346 42 30 1545 346 FOR RJH45 RJE73 = KKXX 30104 1040/ 73611 00449 88881
 20000 32047 (stepped on by RHI99)
 20018 31933 43644
 20050 31664 43659
 20088 31435 (and again, multiple times)

 20150 31361 43837
 20200 31333 43856
 20800 31310 43869
 20885 31308 43869
 30009 = + RFE76
 1509 UTC VVV RCV DE RFE76 QSA? QTC
 1510 UTC RFE76 181 21 30 1807 181 = SML FOR RJH45 RJE73 = 30151 99359 70055 22262
 1559 UTC VVV RIW DE RMRV QSA?
 1600 UTC RMRV QYT4 QSA 8623/16942 QWH 12414 FM RAA



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

9027 kHz, 13-10, 1553 UTC Tu-95MS Bear H net air end. 4ASU DE P1FE QTC K. P1FE = 029 132 699 342 457 072 K
 8162 kHz, 13-10, 1554 UTC Tu-95MS Bear H net NCS. P1FE DE 4ASU QRV K. 4ASU = 029 132 699 342 457 072 C ? K
 8162 kHz, 13-10, 1600 UTC W-markers: Tu-95MS Bear H net

8033 kHz 13-10, 1500 UTC USB also active in voice
9027 kHz, 13-10, 1616 UTC Tu-95MS Bear H net air end. 4ASU DE P1FE QTC K. P1FE = 056 799 979 326 855 K
8162 kHz, 13-10, 1616 UTC Tu-95MS Bear H net NCS. P1FE DE 4ASU QRV K. 4ASU = 056 799 979 326 855 KC ? K
8162 kHz, 13-10, 1620 UTC W-markers: Tu-95MS Bear H net
4521 kHz, 10-10, 2140 UTC 71 90 41 01 22 00 22 J = REA4 k
8162 kHz, 30-10 Bear Net Ground. W-markers at 1100, 1120, 1140, 1300 UTC
8162 kHz, 31-10, 1315 UTC Bear Net Ground: [4ASU] = 104 169 251 154 234 131 K
8162 kHz, 31-10 W-marker every 20 mins between 1320 and 1700 UTC

LOGS SECTION

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
5078.5	---	28-10	0911	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC/KK2/AB)
8685	---	28-10	0952	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC)
9212	---	28-10	1205	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC)
10184.5	---	28-10	1224	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC/AB)
12138	---	28-10	1244	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC/AB)
13997	---	28-10	1304	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC/AB/Token)
14516	---	28-10	1328	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC/AB)
15822.5	---	28-10	1359	Tue	Unid testing. 10-tone at 1kHz spacing. Bandwidth 20kHz	AM	(JkC)
19561	---	29-10	0839	Wed	Unid testing. 1-2-3 kHz tones sequentially. Off at 0839z	AM	(AL)
6450	ARM	1-10	1836	Wed	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	10-10	1612	Fri	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	11-10	1729	Sat	Armenian Air Defense. Bearing/range reports	USB	(AB)
3790	ARM	17-10	2125	Fri	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	20-10	1528	Mon	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	22-10	1532	Wed	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	26-10	2203	Sun	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	27-10	1612	Mon	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	31-10	1528	Fri	Armenian Air Defense. Bearing/range reports	USB	(AB)
18359.9	CHN	11-9	0830	Thu	Chinese diplo. HR MSG GA PSE NOTE CY 0247 0206 51 0911 176 7503---6976	LSB 4+4 QPSK 75/3000	(EW)
22752.9	CHN	5-10	1030	Sun	Chinese diplo. 6080 7225 8167 7041 3937 8996 6323 2696 8597 8674 etc	LSB 4+4 QPSK 75/3000	(EW)
19922	DP01	24-10	0830	Fri	Russian Gov/Intel.	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(EW)
19117	DP01	24-10	0840	Fri	Russian Gov/Intel.	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(EW)
18265	DP01	24-10	0850	Fri	Russian Gov/Intel.	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(EW)
21918	DP01	25-10	0800	Sat	Russian Gov/Intel. (8min23s MFSK16 data length)	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
20881	DP01	25-10	0820	Sat	Russian Gov/Intel. (8min23s MFSK16 data length)	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
20461	DP01	25-10	0840	Sat	Russian Gov/Intel. (8min23s MFSK16 data length)	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
19921	DP01	25-10	0900	Sat	Russian Gov/Intel. (8min23s MFSK16 data length)	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
19117	DP01	25-10	0920	Sat	Russian Gov/Intel. (8min23s MFSK16 data length)	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
18264	DP01	25-10	0940	Sat	Russian Gov/Intel. (8min23s MFSK16 data length)	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
21859	DP01	25-10	1000	Sat	Russian Gov/Intel. (4min43s MFSK16 data length)	33Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
20726	DP01	25-10	1010	Sat	Russian Gov/Intel. (4min43s MFSK16 data length)	33Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
20027	DP01	25-10	1020	Sat	Russian Gov/Intel. (4min43s MFSK16 data length)	33Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
19047	DP01	25-10	1030	Sat	Russian Gov/Intel. (4min43s MFSK16 data length)	33Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
18056	DP01	25-10	1040	Sat	Russian Gov/Intel. (4min43s MFSK16 data length)	33Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)
15864	DP01	25-10	1050	Sat	Russian Gov/Intel. (4min43s MFSK16 data length)	33Bd MFSK-16 / 2x 62.5Bd QPSK	(#WUN)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
11536	DP01	28-10	1850	Tue	Russian Gov/Intel.	16.5Bd MFSK-16 / 2x 62.5Bd QPSK	(Avare)
18174	DPRK	24-9	0815	Wed	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
19665	DPRK	24-9	0825	Wed	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
18357	DPRK	2-10	1030	Thu	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
22150	DPRK	2-10	1040	Thu	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
18172	DPRK	2-10	1103	Thu	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
18860	DPRK	3-10	0855	Fri	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
19137	DPRK	4-10	0905	Sat	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
17435	DPRK	4-10	0915	Sat	MFA Pyongyang North Korea. Encrypted text	DPRK-ARQ 600/600 LSB	(EW)
11320	DPRK	25-10	0704	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB	(PPA)
20450	DPRK	25-10	1532	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB	(PPA)
17475	E06	2-10	0600	Thu	186 537 104 15690	USB	(HFD)
19270	E06	2-10	0700	Thu	186	USB	(HFD)
20137	E06	2-10	1500	Thu	548 372 60 14409 06103 95141 ... 05569 54902 29353 372 60 00000	USB	(Danix/Avare)
18724	E06	2-10	1600	Thu	548 372 60 14409 06103 95141 ... 05569 54902 29353 372 60 00000	USB	(Danix/Avare)
5186	E06	2-10	2030	Thu	981 237 20 37835 35787 58873 ... 60491 75924 04594 237 20 00000	AM	(GHn)
7984	E06	3-10	1930	Fri	158 247 60 41835 54974 66849 ... 16810 19334 84178 247 60 00000	AM	(RsRu)
7984	E06	3-10	1930	Fri	158 247 60 41835 54974 66849 ... 16810 19334 84178 247 60 00000	USB	(RSRu)
5197	E06	3-10	2130	Fri	634 921 20 14259	USB	(HFD)
12207	E06	8-10	1120	Wed	509 482 108 40190 02169 25359 ... 51767 23767 57593 41402 462 108 00000	USB	(MPJ)
4482	E06	8-10	1920	Wed	376 376 376 00000	USB	(AB/MPJ)
13457	E06	10-10	1740	Fri	634 109 52 18442 96169 83518 ... 63252 49165 85999 109 52 00000	USB	(Danix)
10204	E06	10-10	1840	Fri	634 109 52 18442 96169 83518 ... 63252 49165 85999 109 52 00000	USB	(Danix)
7885	E06	12-10	1120	Sun	376 0	USB	(HFD)
6963	E06	12-10	1220	Sun	376 0	USB	(HFD)
17470	E06	17-10	0600	Fri	186 537 104 15690 46204 24021 ... 70303 71211 59031 537 104 00000	USB	(AB)
19270	E06	17-10	0700	Fri	186 537 104 15690 46204 24021 ... 70303 71211 59031 537 104 00000	USB	(AB)
5197	E06	17-10	2130	Fri	634 921 20 14259 22676 32782 ... 73311 98089 12250 921 20 00000	USB	(AB)
12207	E06	22-10	1130	Wed	509 509 509 00000	USB	(AB/MPJ)
20137	E06a	2-10	1500	Thu	548 901 2 11111 00055 followed by E06	USB	(Danix/Avare)
18724	E06a	2-10	1600	Thu	548 901 2 11111 00055 followed by E06	USB	(Danix/Avare)
15836	E06s	17-10	1730	Fri	302 517 2 11111 00059 517 2	H3E	(Avare)
13376	E07	1-10	1700	Wed	317 1 525 114 47427 65640 87007 ... 43185 18522 78338 000 000	AM	(JE-HOL)
12176	E07	1-10	1720	Wed	317 1 525 114 47427 65640 87007 ... 43185 18522 78338 000 000	AM	(JE-HOL)
10243	E07	1-10	1900	Wed	229 229 229 000	AM	(AB/MPJ)
9243	E07	1-10	1920	Wed	229 229 229 000	AM	(AB/GHn/MPJ)
7516	E07	2-10	2010	Thu	584 584 584 000	USB	(MPJ)
7516	E07	2-10	2010	Thu	584 584 584 000	AM	(GHn/HFD)
5836	E07	2-10	2030	Thu	584 0	USB	(HFD)
12176	E07	5-10	1720	Sun	317 317 317 000	USB	(MPJ)
10243	E07	6-10	1900	Mon	229 229 229 000	AM	(MPJ/HFD)
9243	E07	6-10	1920	Mon	229 229 229 000	AM	(GHn/MPJ/HFD)
7943	E07	6-10	1940	Mon	229 0	USB	(HFD)
13376	E07	8-10	1700	Wed	317 317 317 000	AM	(HFD/MPJ)
12176	E07	8-10	1720	Wed	317 317 317 000	AM	(HFD/MPJ)
10243	E07	8-10	1900	Wed	229 229 229 000	AM	(AB/MPJ/HFD)
9243	E07	8-10	1920	Wed	229 229 229 000	AM	(AB/MPJ/HFD)
13376	E07	12-10	1700	Sun	317 317 317 000	AM	(MPJ)
12176	E07	12-10	1720	Sun	317 317 317 000	AM	(MPJ)
10243	E07	13-10	1900	Mon	229 229 229 1 223 88 223 88 5FGs msg	H3E	(PPA)
9243	E07	13-10	1923	Mon	229 229 229 1 223 88 223 88 5FGs msg	H3E	(PPA)
13376	E07	15-10	1700	Wed	317 317 317 000	AM	(AB/MPJ)
12176	E07	15-10	1720	Wed	317 317 317 000	AM	(AB/MPJ)
10243	E07	15-10	1900	Wed	229 1 ... __930 38114 61262 11201 92229 7143_14408 ... 994_3 26209 04892 9__90 (faded)	AM	(MPJ)
9243	E07	15-10	1920	Wed	229 1 223 86 20838 63147 76439 71782 91457 ... 51228 21300 36816 54317 74102 000 000	AM	(MPJ)
7943	E07	15-10	1940	Wed	229 1 223 86 20838 63147 76439 71782 91457 ... 51228 21300 36816 54317 74102 000 000	AM	(MPJ)
10243	E07	20-10	1900	Mon	229 229 229 000	AM	(MPJ)
9243	E07	20-10	1920	Mon	229 229 229 000	AM	(MPJ/GHn)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
13376	E07	22-10	1700	Wed	317 1 (R) 497 107 497 107 62026 35165 18512 ... 13886 09628 02272 000 AM 000		(AB)
12176	E07	22-10	1720	Wed	317 1 (R) 497 107 497 107 62026 35165 18512 ... 13886 09628 02272 000 AM 000		(AB/MPJ)
10776	E07	22-10	1740	Wed	317 1 (R) 497 107 497 107 62026 35165 18512 ... 13886 09628 02272 000 AM 000		(AB/MPJ)
10243	E07	22-10	1900	Wed	229 229 229 000	AM	(MPJ)
9243	E07	22-10	1920	Wed	229 229 229 000	AM	(MPJ)
7516	E07	23-10	2010	Thu	584 584 584 000	AM	(AB)
13376	E07	26-10	1700	Sun	317 317 317 000	AM	(AB/MPJ)
12176	E07	26-10	1720	Sun	317 317 317 000	AM	(AB)
10243	E07	27-10	1900	Mon	325 21 65786 70065 22056 86071 57247 ... 75702 17445 91009 60509 04927 000 000	AM	(MPJ)
9243	E07	27-10	1920	Mon	325 21 65786 70065 22056 86071 57247 ... 75702 17445 91009 60509 04927 000 000	AM	(MPJ)
7943	E07	27-10	1940	Mon	325 21 65786 70065 22056 86071 57247 ... 75702 17445 91009 60509 04927 000 000	AM	(MPJ)
13376	E07	29-10	1700	Wed	317 317 317 000	AM	(AB)
12176	E07	29-10	1720	Wed	317 317 317 000	AM	(AB/MPJ)
10243	E07	29-10	1900	Wed	229 1 325 21 75786 70069 22056 86071 57247 ... 75702 17445 9100_ 70505 04927 000 000	AM	(MPJ)
9243	E07	29-10	1920	Wed	229 1 325 21 75786 70069 22056 86071 57247 ... 75702 17445 9100_ 70505 04927 000 000	AM	(MPJ)
5836	E07	30-10	2030	Thu	584 584 584 000	AM	(MPJ)
5864	E07a	1-10	2000	Wed	815 815 815 000	USB	(AB/MPJ/GHn)
5164	E07a	1-10	2020	Wed	815 815 815 000	USB	(AB)
11424	E07a	3-10	1510	Fri	411 411 411 000	USB	(AB/MPJ/GHn)
10124	E07a	3-10	1530	Fri	411 411 411 000	USB	(AB/MPJ)
11484	E07a	4-10	0800	Sat	413 0	USB	(HFD)
12184	E07a	4-10	0820	Sat	413 0	USB	(HFD)
5864	E07a	8-10	2000	Wed	815 815 815 000	USB	(AB/MPJ/HFD)
5164	E07a	8-10	2020	Wed	815 0	USB	(HFD)
11424	E07a	10-10	1510	Fri	411 411 411 000	USB	(AB/MPJ)
10124	E07a	10-10	1530	Fri	411 411 411 000	USB	(GHn/MPJ)
5864	E07a	15-10	2000	Wed	815 815 815 000	USB	(MPJ)
5146	E07a	16-10	0430	Thu	188 0	USB	(HFD)
5846	E07a	16-10	0450	Thu	188 0	USB	(HFD)
11424	E07a	17-10	1410	Fri	411 411 411 000	USB	(AB/MPJ)
10124	E07a	17-10	1430	Fri	411 411 411 000	USB	(AB)
11424	E07a	17-10	1510	Fri	411 0	USB	(HFD)
10124	E07a	17-10	1530	Fri	411 0	USB	(HFD)
12184	E07a	18-10	0820	Sat	413 413 413 000	USB	(AB)
5864	E07a	22-10	2000	Wed	815 815 815 000	USB	(MPJ)
11424	E07a	24-10	1510	Fri	411 411 411 000	USB	(AB)
10124	E07a	24-10	1530	Fri	411 411 411 000	USB	(MPJ)
5864	E07a	29-10	2000	Wed	815 815 815 000	USB	(MPJ)
5164	E07a	29-10	2020	Wed	815 815 815 000	USB	(MPJ)
11424	E07a	31-10	1510	Fri	411 411 411 000	USB	(MPJ)
10124	E07a	31-10	1530	Fri	411 411 411 000	USB	(MPJ)
10800	E11	2-10	0645	Thu	517/00	USB	(AB)
9960	E11	2-10	0820	Thu	438/00	USB	(AB)
8803	E11	2-10	0930	Thu	270/00	USB	(AB/KK2)
10330	E11	2-10	1530	Thu	262/00	USB	(JE-HOL)
10330	E11	2-10	1530	Thu	262/00	USB	(MPJ)
9371	E11	2-10	1730	Thu	416/00	USB	(JE-HOL)
7377	E11	3-10	2000	Fri	576/00	USB	(AB/MPJ)
10213	E11	4-10	1705	Sat	391/34 Attention 77977 81378 92930 13222 25203 ... 24116 38819 77997 21607 71880 (rpts)	USB	(MPJ)
8186	E11	4-10	2005	Sat	363/00	USB	(MPJ)
8186	E11	4-10	2005	Sat	363/00	USB	(KK2)
11450	E11	5-10	0805	Sun	311/00	USB	(AB)
15915	E11	5-10	1540	Sun	228/00	USB	(MPJ)
6304	E11	6-10	0450	Mon	416/00	USB	(KK2)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
6304	E11	6-10	0450	Mon	416/00	USB	(HFD)
10213	E11	6-10	0745	Mon	262/00	USB	(HFD)
13375	E11	6-10	1110	Mon	953/31 Attention 12889 20850 55997 ... 29683 81806 40728 Attention, rpt msg, out	USB	(AB)
15915	E11	8-10	1155	Wed	712/36 Attention 63059 ...	USB	(MPJ)
12229	E11	8-10	1300	Wed	132/37 Attention 27556 41171 10076 46415 97446 ... 24920 79723 84177 76200 32209	USB	(MPJ)
15915	E11	9-10	1155	Thu	712/36 Attention 63059 46385 28528 ... 61380 39692 01111 Attention, rpt msg, out	USB	(AB)
15915	E11	10-10	0545	Fri	348/00	USB	(AB)
10221	E11	10-10	0710	Fri	633/00	USB	(AB)
5194	E11	10-10	1710	Fri	954/32 Attention 17998 65973 73222 ... 95531 85277 17499 Attention, rpt msg, out	USB	(AB/MPJ)
7377	E11	10-10	2000	Fri	576/00	USB	(MPJ)
10213	E11	11-10	1705	Sat	392/00	USB	(MPJ)
8086	E11	12-10	2005	Sun	363/00	USB	(GHn)
10221	E11	14-10	0710	Tue	633/00	USB	(AB)
14575	E11	14-10	0745	Tue	335/00	USB	(AB)
8102	E11	14-10	1045	Tue	576/00	USB	(MPJ)
12229	E11	14-10	1300	Tue	133/00	USB	(MPJ)
15915	E11	15-10	1155	Wed	718/00	USB	(MPJ)
12229	E11	15-10	1300	Wed	133/00	USB	(MPJ)
10213	E11	15-10	1705	Wed	392/00	USB	(AB/MPJ)
10330	E11	16-10	1530	Thu	262/00	USB	(MPJ)
10221	E11	17-10	0710	Fri	633/00	USB	(AB)
7377	E11	17-10	2000	Fri	576/00	USB	(GHn/MPJ)
10213	E11	18-10	1705	Sat	392/00	USB	(MPJ)
8186	E11	18-10	2005	Sat	363/00	USB	(MPJ)
8186	E11	19-10	2005	Sun	363/00	USB	(MPJ)
10213	E11	20-10	0745	Mon	262/00	USB	(AB)
10800	E11	21-10	0645	Tue	517/00	USB	(AB)
10221	E11	21-10	0710	Tue	630/35 Attention 04408 19177 19198 ... 37902 53675 53734 Attention, rpt msg, out	USB	(AB)
14575	E11	21-10	0745	Tue	333/38 Attention 98284 60898 32658 ... 37164 40022 14915 Attention, rpt msg, out	USB	(AB)
7449	E11	21-10	1045	Tue	469/00	USB	(AB/MPJ)
8102	E11	21-10	1045	Tue	576/00	USB	(AB)
15915	E11	22-10	0545	Wed	348/00	USB	(AB)
8803	E11	22-10	0930	Wed	270/00	USB	(AB)
7449	E11	22-10	1045	Wed	469/00	USB	(AB/MPJ)
10213	E11	22-10	1705	Wed	392/00	USB	(MPJ)
8803	E11	23-10	0930	Thu	270/00	USB	(AB)
15915	E11	23-10	1155	Thu	718/00	USB	(AB)
10330	E11	23-10	1530	Thu	262/00	USB	(MPJ)
9371	E11	23-10	1730	Thu	416/00	USB	(GHn/MPJ)
15915	E11	24-10	0545	Fri	348/00	USB	(AB)
10213	E11	25-10	1705	Sat	392/00	USB	(MPJ)
15915	E11	26-10	1540	Sun	228/00	USB	(AB)
9960	E11	27-10	0820	Mon	438/00	USB	(AB)
9399	E11	27-10	0900	Mon	534/00	USB	(AB/KK2)
15915	E11	27-10	1540	Mon	228/00	USB	(AB)
10800	E11	28-10	0645	Tue	517/00	USB	(AB)
10221	E11	28-10	0710	Tue	633/00	USB	(AB)
14575	E11	28-10	0745	Tue	335/00	USB	(AB)
7449	E11	28-10	1045	Tue	469/00	USB	(MPJ)
9399	E11	29-10	0900	Wed	534/00	USB	(AB)
7449	E11	29-10	1045	Wed	469/00	USB	(AB/MPJ)
15915	E11	29-10	1155	Wed	718/00	USB	(AB/MPJ)
4909	E11	29-10	1445	Wed	287/00	USB	(AB)
10213	E11	29-10	1705	Wed	392/00	USB	(MPJ)
15915	E11	30-10	1155	Thu	718/00	USB	(MPJ)
9370	E11	30-10	1730	Thu	416/00	USB	(AB/MPJ)
13375	E11	31-10	1110	Fri	956/36 Attention 72267 72055 60058 ... 64653 23931 93636 Attention,	USB	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
					rpt msg, out		
5194	E11a	3-10	1710	Fri	955/23 Attention 57767 90314 64377 ... 26481 94487 07714	USB	(AB/MPJ)
13375	E11a	4-10	1400	Sat	980/10 Attention 19698 60001 38808 59459 94749 41744 94935 54193 54200 33369	USB	(MPJ)
13455	E11a	4-10	1810	Sat	981/10 Attention 97500 09178 91683 61346 13082 33026 47432 31201 00762 95664	USB	(MPJ)
15915	E11a	6-10	1540	Mon	224/34 Attention 95296 90731 96412 ... 95453 97338 68984	USB	(JE-HOL)
12229	E11a	7-10	1300	Tue	132/37 Attention 2755_ 41171 10076 46415 97446 ... 24920 79723 84177 76200 32209	USB	(MPJ)
13375	E11a	7-10	1400	Tue	981/10 Attention 57574 50783 58751 94593 51401 52166 53634 74451 10013 23133 Att, rpt msg, out	USB	(AB/MPJ)
13455	E11a	7-10	1810	Tue	982/10 Attention 49554 49457 36098 88058 98726 11533 00160 52232 49352 69150	USB	(MPJ)
10800	E11a	9-10	0645	Thu	519/37 Attention 79526 75038 91591 ... 34359 89788 10570 Attention, rpt msg, out	USB	(AB)
15915	E11a	9-10	1155	Thu	712/36 Attention 63059 46385 28528 47308 ... 18318 61360 39692 01111	USB	(MPJ)
13375	E11a	11-10	1400	Sat	987/10 Attention 72107 31623 47480 15028 34137 20092 69870 55201 26028 67121	USB	(MPJ)
5194	E11a	13-10	1710	Mon	953/30 Attention 18429 97079 49745 ... 63681 97779 38666 Attention, rpt msg, out	USB	(AB)
13375	E11a	14-10	1400	Tue	983/10 Attention 89179 51771 77857 33513 71431 51929 60804 99578 30083 44824 Attention, rpt msg, out	USB	(GHn/CS/MPJ)
13455	E11a	14-10	1810	Tue	985/10 Attention 23812 11411 08141 96333 17089 39873 94275 74791 43434 20132	USB	(MPJ)
11450	E11a	15-10	0805	Wed	374/35 57066	USB	(HFD)
9371	E11a	16-10	1730	Thu	413/38 Attention 75589 06043 03706 ... 68874 18923 59191 Attention, rpt msg, out	USB	(AB/GHn/MPJ)
5194	E11a	17-10	1710	Fri	957/27 Attention 99571 20311 57480 ... 74519 42907 23730 Attention, rpt msg, out	USB	(AB/MPJ)
10213	E11a	18-10	0530	Sat	984/10 Attention 10675 58616 42334 28169 88685 32259 14149 52225 38721 40563 Attention, rpt msg, out	USB	(AB)
13375	E11a	18-10	1400	Sat	988/10 Attention 37810 16202 88741 52764 94125 69448 57663 91550 04165 36757	USB	(MPJ)
13375	E11a	20-10	1110	Mon	950/40 Attention 02815 32401 79065 ... 34679 75146 41406 Attention, rpt msg, out	USB	(AB)
5194	E11a	20-10	1710	Mon	955/30 Attention 51692 05499 22753 ... 22703 08625 57202 Attention, rpt msg, out	USB	(AB)
13375	E11a	21-10	1400	Tue	984/10 Attention 61524 08560 10216 83041 10362 78009 47989 61689 63395 50918	USB	(AB/MPJ)
13455	E11a	21-10	1810	Tue	980/10 Attention 51193 46638 74822 59419 68445 90342 40754 24146 61593 89568	USB	(MPJ)
10221	E11a	24-10	0710	Fri	630/35 Attention 04408 19177 19198 ... 37902 53675 53734 Attention, rpt msg, out	USB	(AB)
5194	E11a	24-10	1710	Fri	954/26 Attention 31702 51562 70442 ... 79538 16907 39293 Attention, rpt msg, out	USB	(GHn)
13375	E11a	25-10	1400	Sat	982/10 Attention 05938 95210 80774 17468 17103 16781 57114 99718 69254 72092	USB	(MPJ)
8186	E11a	26-10	2005	Sun	366/32 Attention 66324 98861 74493 16794 85623 ... 05211 93257 63854 70598 31108	USB	(MPJ)
10213	E11a	27-10	0745	Mon	261/33 Attention 53477 31735 47709 ... 21804 18862 83983 Attention, rpt msg, out	USB	(AB)
10298	E11a	27-10	1003	Mon	121/20 Attention 75592 06568 08708 ... 90772 36798 75163 Attention, rpt msg, out	USB	(Danix)
13375	E11a	27-10	1110	Mon	952/35 Attention 23604 26402 75568 62187 36570 ... 59261 69949 03624 72261 91270	USB	(MPJ)
5194	E11a	27-10	1710	Mon	955/30 Attention 91361 14074 49338 ... 24322 28099 70961 Attention, rpt msg, out	USB	(AB/MPJ)
4638	E11a	27-10	1810	Mon	121/20 Attention 75592 06568 08708 ... 90772 36798 75163 Attention, rpt msg, out	USB	(Danix)
4638	E11a	27-10	1810	Mon	121/20 Attention 75592 06568 08708 ... 90772 36798 75163 Attention, rpt msg, out	USB	(Danix)
5148	E11a	27-10	1840	Mon	121/20 Attention 75592 06568 08708 ... 90772 36798 75163 Attention, rpt msg, out	USB	(Danix)
4242	E11a	27-10	2010	Mon	121/25 Attention 90139 54879 19211 ... 00212 62635 05014 Attention, rpt msg, out	USB	(AB/Danix)
4536	E11a	27-10	2040	Mon	121/25 Attention 90139 54879 19211 ... 00212 62635 05014 Attention, rpt msg, out	USB	(AB/Danix)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
					rpt msg, out		
8102	E11a	28-10	1045	Tue	573/38 Attention 59051 05681 50429 78489 52779 ... 54776 39927 86226 51363 44967	USB	(MPJ)
13375	E11a	28-10	1400	Tue	987/10 Attention 95916 48775 88150 44873 46702 54040 43142 47357 41962 11377	USB	(MPJ)
4638	E11a	28-10	1810	Tue	121/25 Attention 71511 63804 32710 ... 18444 54717 66361 Attention, rpt msg, out	USB	(Danix)
13455	E11a	28-10	1810	Tue	985/10 Attention 74553 60945 89045 35569 87585 46864 66064 59242 30094 25721 Attention, rpt msg, out	USB	(AB/MPJ)
5194	E11a	28-10	1840	Tue	121/25 Attention 71511 63804 32710 ... 18444 54717 66361 Attention, rpt msg, out	USB	(AB)
4242	E11a	28-10	2010	Tue	121/20 Attention 01713 76950 25393 ... 48849 06675 21619 Attention, rpt msg, out	USB	(AB)
4536	E11a	28-10	2040	Tue	121/20 Attention 01713 76950 25393 ... 48849 06675 21619 Attention, rpt msg, out	USB	(AB)
8803	E11a	29-10	0930	Wed	273/38 Attention 14010 11781 04908 ... 97536 88881 64562 Attention, rpt msg, out	USB	(AB)
7377	E11a	31-10	2000	Fri	576/38 Attention 59051 05661 50429 ... 86226 57363 44967 Attention, rpt msg, out	USB	(GHn/MPJ)
8186	E11c	30-10	0855	Thu	121/222/00	USB	(Danix)
14260	E17z	2-10	0800	Thu	674 983 5 82707 06123 22536 88280 84116 983 5 00000	USB	(AB)
12930	E17z	2-10	0810	Thu	674 983 5 82707 06123 22536 88280 84116 983 5 00000	USB	(AB)
10240	E17z	6-10	1501	Mon	274 816 5 40613 77249 40678 17976 21816 816 5 00000	AM	(JE-HOL/Danix)
6325	E17z	10-10	1809	Fri	274 (R4) 518 30 80939 34431 94276 54537 549*off* 274 (R1) 80939 34431 94276 ... 44126 31653 31828 518 30 00000	USB	(Danix)
7636	E17z	17-10	0900	Fri	Female voice 274 839 20 errors, than live male operating reading the message live	H3E	(LDO)
14260	E17z	23-10	0800	Thu	674 923 5 18276 43362 01997 56489 23091 923 5 00000	USB	(AB)
12930	E17z	23-10	0810	Thu	674 923 5 18276 43362 01997 56489 23091 923 5 00000	USB	(AB)
9450	E25	9-10	1215	Thu	Enta Omri 883 5 0 5555 835 830 5555 835 830 5555 (see N&O 205)	AM	(to-toCZ/Avare/Gwr aspe)
9450	E25	11-10	1215	Sat	Enta Omri 883 5 0 5555 835 830 5555 835 830 5555 (see N&O 205)	AM	(to-toCZ/Danix/FYM)
9450	E25a	12-10	1215	Sun	Ente omri. 80 7 830 7 (rptd) message rebeat end of message, end of transmission	AM	(toto)
19123.7	EGY	14-10	1523	Tue	MFA Cairo coded and plain text sent mostly garbled	Sitor-A 100/170	(LG2)
11171.7	EGY	16-10	2155	Thu	MFA Cairo ending msg "hpdj tys lus kjkg kddr yks yks yks"	Sitor-A 100/170	(AAI)
19162	EGY	25-10	1356	Sat	MFA Cairo clg embassy New Delhi Embassy + Codan-9001 msgs	SITOR-A 100/170	(AAI)
9226	G06	3-10	2000	Fri	167 167 167 00000	USB	(AB/HFD)
6982	G06	3-10	2100	Fri	167 167 167 00000	USB	(AB/HFD)
4573	G06	6-10	1700	Mon	367 124 083 03714 97114 56953 ... 74303 33798 28979 124 083 00000	USB	(Avare/MPJ)
5478	G06	6-10	1800	Mon	367 124 083 03714 97114 56953 ... 74303 33798 28979 124 083 00000	USB	(AB)
5934	G06	9-10	1830	Thu	579 832 832 20 20 37839 35787 98273 ... 60491 75924 04594 832 832 20 20 00000	USB	(Avare/MPJ)
4573	G06	13-10	1700	Mon	367 124 083 03714 97114 56953 ... 74303 33798 28979 124 083 00000	USB	(AB)
5478	G06	13-10	1815	Mon	367 124 083 03714 97114 56953 ... 74303 33798 28979 124 083 00000	USB	(KK2)
9226	G06	17-10	2000	Fri	167 167 167 00000	USB	(GHn)
6982	G06	17-10	2100	Fri	167 167 167 00000 with S06 on 7908 kHz in the background	USB	(Avare/Danix)
5934	G06	23-10	1830	Thu	579 832 20 37839 35787 98273 ... 60491 75924 04594 832 832 20 20 00000	USB	(GHn/MPJ)
5442	G06	24-10	1830	Fri	947 _15 unreadable	USB	(MPJ)
6774	G06	27-10	0800	Mon	215 215 215 00000	USB	(AB)
5855	HM01	1-10	0500	Wed	41174 68621 67056 24863 10305 25061	AM/RDFT	(FSNY)
10345	HM01	1-10	0600	Wed	41174 68621 67056 24863 10305 25061	AM/RDFT	(SFNY)
10715	HM01	1-10	2200	Wed	41175 68622 67057 24864 10306 25062	AM/RDFT	(Dan)
11462	HM01	2-10	0517	Thu	Carrier. No transmission. Stopped listening at 0535	AM	(AB)
14375	HM01	2-10	0600	Thu	41175 68622 67057 24864 10306 25062	AM/RDFT	(AB)
13435	HM01	2-10	0700	Thu	41175 68622 67057 24864 10306 25062	AM/RDFT	(AB)
11635	HM01	2-10	0800	Thu	41175 68622 67057 24864 10306 25062	AM/RDFT	(AB)
11462	HM01	2-10	0900	Thu	41175 68622 67057 24864 10306 25062	AM/RDFT	(AB)
11435	HM01	2-10	1600	Thu	50010 56451 57257 34037 28052 14427	AM/RDFT	(DSch)
16180	HM01	2-10	2153	Thu	41176 68623 67058 28865 10307 25063	AM/RDFT	(DSch)
5855	HM01	3-10	0505	Fri	41176 68623 38601 24865 10307 25063	AM/RDFT	(PPA)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
10345	HM01	3-10	0600	Fri	41176 68623 38601 24865 10307 25063	AM/RDFT	(PPA)
11435	HM01	3-10	1600	Fri	41177 68624 38601 24866 10308 25064	AM/RDFT	(DSch)
11530	HM01	3-10	1704	Fri	41177 68624 38601 24866 10308 25064	AM/RDFT	(DSch)
11635	HM01	3-10	1800	Fri	41177 68624 38601 24866 10308 25064	AM/RDFT	(DSch)
11635	HM01	3-10	2121	Fri	41177 68624 38601 24866 10308 25064	AM/RDFT	(DSch)
10715	HM01	3-10	2208	Fri	41177 68624 38601 24866 10308 25064	AM/RDFT	(DSch)
11462	HM01	4-10	0500	Sat	41177 68624 38601 24866 10308 25064	AM/RDFT	(PPA)
8097	HM01	4-10	1403	Sat	41178 68625 38602 24867 83481 25065	AM/RDFT	(DSch)
11435	HM01	4-10	1600	Sat	41178 68625 38602 24867 83481 25065	AM/RDFT	(DSch)
11530	HM01	4-10	1700	Sat	41178 68625 38602 24867 83481 25065	AM/RDFT	(DSch)
11635	HM01	4-10	1812	Sat	41178 68625 38602 24867 83481 25065	AM/RDFT	(DSch)
16180	HM01	4-10	2100	Sat	41178 68625 38602 24867 83481 25065	AM/RDFT	(DSch)
17480	HM01	4-10	2205	Sat	41178 68625 38602 24867 83481 25065	AM/RDFT	(DSch)
5855	HM01	5-10	0500	Sun	41178 68625 38625 24867 83481 25065. Late start 0504z	AM/RDFT	(AB)
10345	HM01	5-10	0600	Sun	41178 68625 38625 24867 83481 25065	AM/RDFT	(AB)
9330	HM01	5-10	0700	Sun	41178 68625 38625 24867 83481 25065	AM/RDFT	(AB)
9065	HM01	5-10	0800	Sun	41178 68625 38625 24867 83481 25065	AM/RDFT	(AB)
11435	HM01	5-10	1604	Sun	88421 68626 38603 24868 83481 25066	AM/RDFT	(DSch)
11530	HM01	5-10	1712	Sun	88421 68626 38603 24868 83481 25066 88421 etc 051712	AM/RDFT	(DSch)
11635	HM01	5-10	1800	Sun	88421 68626 38603 24868 83481 25066 88421 etc 051800	AM/RDFT	(DSch)
11635	HM01	5-10	2103	Sun	88421 68626 38603 24868 83481 25066 88421 etc 052103	AM/RDFT	(DSch)
10715	HM01	5-10	2200	Sun	88421 68626 38603 24868 83481 25066 88421 etc 052200	AM/RDFT	(DSch)
5855	HM01	6-10	0500	Mon	88421 68626 38603 24868 83481 25066	AM/RDFT	(AB/SFNY)
10345	HM01	6-10	0600	Mon	88421 68626 38603 24868 83481 25066	AM/RDFT	(AB)
11435	HM01	6-10	1600	Mon	88421 68627 38604 24869 83482 25067	AM/RDFT	(DSch)
11530	HM01	6-10	1720	Mon	88421 68627 38604 24869 83482 25067	AM/RDFT	(DSch)
11635	HM01	6-10	1805	Mon	88421 68627 38604 24869 83482 25067	AM/RDFT	(DSch)
11635	HM01	6-10	2006	Mon	88421 68627 38604 24869 83482 25067	AM/RDFT	(DSch)
10715	HM01	6-10	2100	Mon	88421 68627 38604 24869 83482 25067	AM/RDFT	(DSch)
14375	HM01	7-10	0500	Tue	88421 68627 38604 24869 83482 25067	AM/RDFT	(AB/SFNY)
11635	HM01	7-10	0800	Tue	88421 68627 38604 24869 83482 25067. Mixing with S06s	AM/RDFT	(AB)
11462	HM01	7-10	0900	Tue	88421 68627 38604 24869 83482 25067	AM/RDFT	(AB)
11435	HM01	7-10	1600	Tue	88422 78251 38605 25351 83483 25068	AM/RDFT	(DSch)
11530	HM01	7-10	1731	Tue	88422 78251 38605 25351 83483 25068	AM/RDFT	(DSch)
11635	HM01	7-10	1801	Tue	88422 78251 38605 25351 83483 25068	AM/RDFT	(DSch)
16180	HM01	7-10	2100	Tue	88422 78251 38605 25351 83483 25068	AM/RDFT	(DSch)
16180	HM01	7-10	2200	Tue	88422 78251 38605 25351 83483 25068. Should be on 17480 kHz	AM/RDFT	(DSch)
17480	HM01	7-10	2202	Tue	88422 78251 38605 25351 83483 25068. Switched from 16180 kHz	AM/RDFT	(DSch)
5855	HM01	8-10	0500	Wed	88422 78251 38605 25351 83483 32940	AM/RDFT	(SFNY)
11435	HM01	8-10	1600	Wed	88423 78251 38606 25351 83484 32941	AM/RDFT	(DSch)
11530	HM01	8-10	1659	Wed	88423 78251 38606 25351 83484 32941	AM/RDFT	(DSch)
11635	HM01	8-10	1800	Wed	88423 78251 38606 25351 83484 32941	AM/RDFT	(DSch)
11635	HM01	8-10	2100	Wed	88423 78251 38606 25351 83484 32941	AM/RDFT	(DSch)
10715	HM01	8-10	2212	Wed	88423 78251 38606 25351 83484 32941	AM/RDFT	(DSch)
11462	HM01	9-10	0500	Thu	88423 78251 38606 25351 83484 32941	AM/RDFT	(SFNY)
11435	HM01	9-10	1600	Thu	8842 78252 38607 25352 83485 32942	AM/RDFT	(DSch)
11530	HM01	9-10	1738	Thu	8842 78252 38607 25352 83485 32942 88424 etc 091738	AM/RDFT	(DSch)
11635	HM01	9-10	1811	Thu	8842 78252 38607 25352 83485 32942 88424 etc 091811	AM/RDFT	(DSch)
16180	HM01	9-10	2100	Thu	8842 78252 38607 25352 83485 32942 88424 etc 092100	AM/RDFT	(DSch/Dan)
17480	HM01	9-10	2200	Thu	8842 78252 38607 25352 83485 32942 88424 etc 092209	AM/RDFT	(DSch/Dan)
5855	HM01	10-10	0500	Fri	88424 78252 38607 25352 83485 32942	AM/RDFT	(AB/SFNY)
11630	HM01	10-10	1812	Fri	i.p.	AM/RDFT	(ADS)
11635	HM01	10-10	1838	Fri	88425 78253 38608 25353 83486 32943	AM/RDFT	(DSch)
11635	HM01	10-10	2100	Fri	88425 78253 38608 25353 83486 32943	AM/RDFT	(DSch)
10715	HM01	10-10	2200	Fri	88425 78253 38608 25353 83486 32943	AM/RDFT	(DSch)
11462	HM01	11-10	0500	Sat	88425 78253 38608 25353 83486 32943	AM/RDFT	(SFNY)
14375	HM01	11-10	0600	Sat	88425 78253 38608 25353 83486 32943	AM/RDFT	(SFNY)
13435	HM01	11-10	0700	Sat	88425 78253 38608 25353 83486 32943	AM/RDFT	(AB)
11635	HM01	11-10	1000	Sat	88425 78253 38608 25353 83486 32943 //12180 kHz	AM/RDFT	(AB)
12180	HM01	11-10	1000	Sat	88425 78253 38608 25353 83486 32943 //11635 kHz	AM/RDFT	(AB)
11435	HM01	11-10	1556	Sat	Very brief Oriental language bcst, then 88425 78253 38608 25353 83486 32943 at 1558z	AM/RDFT	(DSch)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
11530	HM01	11-10	1704	Sat	88426 78254 38609 25354 83487 32944	AM/RDFT	(DSch)
11635	HM01	11-10	1801	Sat	88426 78254 38609 25354 83487 32944	AM/RDFT	(DSch)
16180	HM01	11-10	2102	Sat	88426 78254 38609 25354 83487 32944	AM/RDFT	(DSch)
17480	HM01	11-10	2200	Sat	88426 78254 38609 25354 83487 32944	AM/RDFT	(DSch/Dan)
11435	HM01	12-10	1601	Sun	88427 78255 28211 25355 87221 32945	AM/RDFT	(DSch)
11530	HM01	12-10	1740	Sun	88427 78255 28211 25355 87221 32945	AM/RDFT	(DSch)
11635	HM01	12-10	1831	Sun	88427 78255 28211 25355 87221 32945	AM/RDFT	(DSch)
11635	HM01	14-10	0800	Tue	88428 78256 28211 25356 87221 32946	AM/RDFT	(AB)
11435	HM01	15-10	1645	Wed	Carrier on but no traffic	USB	(DSch)
11530	HM01	15-10	1704	Wed	Carrier on but no traffic	USB	(DSch)
17480	HM01	16-10	2208	Thu	47811 73841 20443 03081 70553 46561	AM/RDFT	(DSch)
10345	HM01	17-10	0700	Fri	47811 73841 20443 03081 70553 46561. Should be on 9330 kHz. Switched to 9330 kHz at 1711 UTC	AM/RDFT	(AB)
9330	HM01	17-10	0711	Fri	47811 73841 20443 03081 70553 46561. Switched from 10345 kHz	AM/RDFT	(AB)
9065	HM01	17-10	0800	Fri	47811 73841 20443 03081 70553 46561	AM/RDFT	(AB)
9240	HM01	17-10	0900	Fri	47811 73841 20443 03081 70553 46561	AM/RDFT	(AB)
11435	HM01	17-10	1600	Fri	47812 73842 20444 03081 70554 46562	AM/RDFT	(DSch)
11530	HM01	17-10	1700	Fri	47812 73842 20444 03081 70554 46562	AM/RDFT	(DSch)
11635	HM01	17-10	1800	Fri	47812 73842 20444 03081 70554 46562	AM/RDFT	(DSch)
11635	HM01	17-10	2100	Fri	47812 73842 20444 03081 70554 46562	AM/RDFT	(DSch)
10715	HM01	17-10	2200	Fri	47812 73842 20444 03081 70554 46562	AM/RDFT	(DSch)
14375	HM01	18-10	0500	Sat	47812 73842 20444 03081 70554 46562	AM/RDFT	(AB)
14375	HM01	18-10	0600	Sat	47812 73842 20444 03081 70554 46562	AM/RDFT	(AB)
13435	HM01	18-10	0700	Sat	47812 73842 20444 03081 70554 46562	AM/RDFT	(AB)
11435	HM01	18-10	1602	Sat	47813 73843 20445 03082 70555 46563	AM/RDFT	(DSch)
11530	HM01	18-10	1700	Sat	47813 73843 20445 03082 70555 46563	AM/RDFT	(DSch)
11635	HM01	18-10	1812	Sat	47813 73843 20445 03082 70555 46563	AM/RDFT	(DSch)
16180	HM01	18-10	2100	Sat	47813 73843 20445 03082 70555 46563	AM/RDFT	(DSch)
17480	HM01	18-10	2204	Sat	47813 73843 20445 03082 70555 46563	AM/RDFT	(DSch)
11435	HM01	19-10	1600	Sun	47814 73844 20446 03083 70556 46564	AM/RDFT	(DSch)
11530	HM01	19-10	1702	Sun	47814 73844 20446 03083 70556 46564	AM/RDFT	(DSch)
11635	HM01	19-10	1815	Sun	47814 73844 20446 03083 70556 46564	AM/RDFT	(DSch)
11635	HM01	19-10	2101	Sun	47814 73844 20446 03083 70556 46564	AM/RDFT	(DSch)
10715	HM01	19-10	2200	Sun	47814 73844 20446 03083 70556 46564	AM/RDFT	(DSch/Dan)
5855	HM01	20-10	0500	Mon	47814 73844 20446 03083 70556 46564	AM/RDFT	(AB)
10345	HM01	20-10	0600	Mon	47814 73844 20446 03083 70556 46564	AM/RDFT	(AB)
9330	HM01	20-10	0700	Mon	47814 73844 20446 03083 70556 46564	AM/RDFT	(AB)
11530	HM01	20-10	1654	Mon	Started sked early. 47815 73845 20447 03084 stopped then back on 70557 46565 201710	AM/RDFT	(DSch)
11635	HM01	20-10	1800	Mon	47815 73845 20447 03084 70557 46565	AM/RDFT	(DSch/ADS)
11635	HM01	20-10	2101	Mon	47815 73845 20447 03084 70557 46565	AM/RDFT	(DSch)
10715	HM01	20-10	2200	Mon	47815 73845 20447 03084 70557 46565	AM/RDFT	(DSch/Dan)
11635	HM01	21-10	0800	Tue	47815 73845 20447 03084 70557 46565	AM/RDFT	(AB)
11462	HM01	21-10	0900	Tue	47815 73845 20447 03084 70557 46565	AM/RDFT	(AB)
11435	HM01	21-10	1601	Tue	47816 73846 20448 03085 70558 46566	AM/RDFT	(DSch)
11530	HM01	21-10	1733	Tue	47816 73846 20448 03085 70558 46566	AM/RDFT	(DSch)
11635	HM01	21-10	1800	Tue	47816 73846 20448 03085 70558 46566	AM/RDFT	(DSch)
16180	HM01	21-10	2104	Tue	47816 73846 20448 03085 70558 46566	AM/RDFT	(DSch)
17480	HM01	21-10	2230	Tue	47816 73846 20448 03085 70558 46566	AM/RDFT	(DSch)
5855	HM01	22-10	0500	Wed	47816 73846 20448 03085 70558 46566	AM/RDFT	(AB)
11435	HM01	22-10	1602	Wed	47817 73847 20449 03086 76031 46567	AM/RDFT	(DSch)
11530	HM01	22-10	1700	Wed	47817 73847 20449 03086 76031 46567	AM/RDFT	(DSch)
11635	HM01	22-10	1800	Wed	47817 73847 20449 03086 76031 46567	AM/RDFT	(DSch)
11635	HM01	22-10	2100	Wed	47817 73847 20449 03086 76031 46567	AM/RDFT	(DSch)
11635	HM01	22-10	2200	Wed	47817 73847 20449 03086 76031 46567. Should be on 10715 kHz	AM/RDFT	(DSch)
10715	HM01	22-10	2205	Wed	47817 73847 20449 03086 76031 46567. Switched from 10715 kHz at 2205z	AM/RDFT	(DSch/Dan)
17480	HM01	23-10	2200	Thu	76031 46568 47818 73848 21141 03087	AM/RDFT	(Dan)
5855	HM01	24-10	0500	Fri	47818 73848 21141 03087 76031 46568	AM/RDFT	(AB)
10345	HM01	24-10	0600	Fri	47818 73848 21141 03087 76031 46568	AM/RDFT	(AB)
9330	HM01	24-10	0730	Fri	47818 73848 21141 03087 76031 46568	AM/RDFT	(AB)
9065	HM01	24-10	0800	Fri	47818 73848 21141 03087 76031 46568	AM/RDFT	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
9240	HM01	24-10	0900	Fri	47818 73848 21141 03087 76031 46568	AM/RDFT	(AB)
11530	HM01	24-10	1719	Fri	17341 73849 21141 03088 76032 43041	AM/RDFT	(DSch)
11635	HM01	24-10	1800	Fri	17341 73849 21141 03088 76032 43041	AM/RDFT	(DSch)
11635	HM01	24-10	2100	Fri	17341 73849 21141 03088 76032 43041	AM/RDFT	(DSch)
10715	HM01	24-10	2200	Fri	17341 73849 21141 03088 76032 43041	AM/RDFT	(Dan)
13435	HM01	25-10	0700	Sat	17341 73849 21141 03088 76032 43041	AM/RDFT	(AB)
12180	HM01	25-10	1031	Sat	17341 73849 21141 03088 76032 43041 //11635 kHz	AM/RDFT	(DSch)
11635	HM01	25-10	1031	Sat	17341 73849 21141 03088 76032 43041 //12180 kHz	AM/RDFT	(DSch)
11435	HM01	25-10	1607	Sat	17341 73849 21141 03088 76032 43041	AM/RDFT	(DSch)
11635	HM01	25-10	1803	Sat	17341 64301 21142 03089 76033 43041	AM/RDFT	(DSch)
16180	HM01	25-10	2058	Sat	17341 64301 21142 03089 76033 43041	AM/RDFT	(DSch)
17480	HM01	25-10	2200	Sat	17341 64301 21142 03089 76033 43041	AM/RDFT	(DSch)
11435	HM01	26-10	1605	Sun	17341 64301 21142 03089 76033 43041	AM/RDFT	(DSch)
11530	HM01	26-10	1743	Sun	17342 64301 21143 77841 76034 43042	AM/RDFT	(DSch)
11635	HM01	26-10	1800	Sun	17342 64301 21143 77841 76034 43042	AM/RDFT	(DSch)
11635	HM01	26-10	2100	Sun	17342 64301 21143 77841 76034 43042	AM/RDFT	(DSch)
10715	HM01	26-10	2210	Sun	17342 64301 21143 77841 76034 43042	AM/RDFT	(DSch)
9330	HM01	27-10	0700	Mon	17342 64301 21143 77841 76034 43042	AM/RDFT	(AB)
9065	HM01	27-10	0800	Mon	17342 64301 21143 77841 76034 43042	AM/RDFT	(AB)
11435	HM01	27-10	1601	Mon	17343 64302 21144 77841 76035 43043	AM/RDFT	(DSch)
11530	HM01	27-10	1716	Mon	17343 64302 21144 77841 76035 43043	AM/RDFT	(DSch)
11635	HM01	27-10	1801	Mon	17343 64302 21144 77841 76035 43043	AM/RDFT	(DSch)
11635	HM01	27-10	2132	Mon	17343 64302 21144 77841 76035 43043	AM/RDFT	(DSch)
10715	HM01	27-10	2219	Mon	17343 64302 21144 77841 76035 43043	AM/RDFT	(DSch)
13435	HM01	28-10	0728	Tue	i.p. 17343 64302 21144 77841 76035 43043	AM/RDFT	(AB)
11635	HM01	28-10	0800	Tue	17343 64302 21144 77841 76035 43043	AM/RDFT	(AB)
11462	HM01	28-10	0900	Tue	17343 64302 21144 77841 76035 43043	AM/RDFT	(AB)
11435	HM01	28-10	1601	Tue	17344 64303 21145 77842 76036 43044	AM/RDFT	(DSch)
11530	HM01	28-10	1701	Tue	17344 64303 21145 77842 76036 43044	AM/RDFT	(DSch)
11635	HM01	28-10	1803	Tue	17344 64303 21145 77842 76036 43044	AM/RDFT	(DSch)
16180	HM01	28-10	2101	Tue	17344 64303 21145 77842 76036 43044	AM/RDFT	(DSch)
17480	HM01	28-10	2200	Tue	17344 64303 21145 77842 76036 43044	AM/RDFT	(DSch)
11435	HM01	31-10	1414	Fri	17347 64306 75721 77845 76039 43047	AM/RDFT	(DSch)
11530	HM01	31-10	1601	Fri	17347 64306 75721 77845 76039 43047	AM/RDFT	(DSch)
11635	HM01	31-10	1658	Fri	17347 64306 75721 77845 76039 43047	AM/RDFT	(DSch)
11635	HM01	31-10	2106	Fri	17347 64306 75721 77845 76039 43047	AM/RDFT	(DSch)
10715	HM01	31-10	2201	Fri	17347 64306 75721 77845 76039 43047	AM/RDFT	(DSch)
5475	M01	2-10	1801	Thu	463 177 30 = = 35462 09666 27316 81042 66690 ... 41549 7012 121 7334 770_4 88959 88959 364856_ 177 1777 30 30 000 (at 1744z VVV VVV K)	CW	(MPJ)
5020	M01	2-10	2000	Thu	463 093 30 95216 59415 48142 73306 11118 ... 62549 14253 42921 12587 25744 = = 093 30 000	CW	(MPJ)
7553.9	M01	7-10	2000	Tue	Cuban cut nbrs IUAGA GIUAN ATIUM	CW	(DSch)
5475	M01	9-10	1800	Thu	739 30 = = 72231 71370 71073 45573 29823 ... 17129 36146 46563 27219 19352 = = 739 30 000. With errors.	CW	(MPJ)
6510	M01	12-10	0700	Sun	463 1#9/30 99818	CW	(HFD)
5475	M01	14-10	1800	Tue	463 541 30 = = 08984 85941 05652 82122 92777 ... 80842 18789 41879 46451 90346 = = 541 30 000	CW	(MPJ)
5020	M01	21-10	2000	Tue	463 208 30 = = = = 40063 24202 (24220) 83784 06035 02341 ... 38979 12258 40619 68325 68425 = = = = 208 30 000 000	CW	(MPJ)
5475	M01	23-10	1800	Thu	463 703 30 = 87982 40140 16392 ... 64703 91986 09296 = 703 30 000	CW	(MPJ)
5020	M01	23-10	2000	Thu	463 371 30 = 33361 84351 78419 ... 50018 86989 41755 = 371 30 000	CW	(MPJ)
6260	M01	25-10	1500	Sat	463 = 072 30 81567 14307 65033 58677 463081 40381 60911 82285 70_61 072 30 = 000 000	CW	(MPJ)
5475	M01	28-10	1800	Tue	463 103 30 = 54512 10720 32141 ... 14749 13347 60088 = 103 30 000	CW	(AB/MPJ)
5020	M01	28-10	1959	Tue	463 917 30 = = 18106 36208 37262 62164 ... 70197 88581 63433 40707 77412 = = 917 30 917 30 000	CW	(MPJ)
5475	M01	30-10	1800	Thu	463 761 30 = 43477 62563 81813 ... 91485 56138 07844 = 761 30 000	CW	(AB/MPJ)
3511	M01b	11-9	1833	Thu	201 173 30 = = 09504 19167 ...	CW	(IARUMS)
4605	M01b	2-10	1831	Thu	201 983 34 71355 91464 25383 15800 84329 ... 63302 20324 12642 30673 29943 = = 984 34 000. 983 sent in preamble, 984 in postamble.	MCW	(MPJ)
3715	M01b	2-10	1942	Thu	477 983 34 71355 91464 25383 15800 84329 ... 63302 20324 12642 30673 29943 = = 984 34 000. 983 preamble/984 postamble //4570 kHz	MCW	(MPJ)
4570	M01b	2-10	1942	Thu	477 983 34 71355 91464 25383 15800 84329 ... 63302 20324 12642	MCW	(MPJ)

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					30673 29943 = = 984 34 000. 983 preamble/984 postamble //3715 kHz		
3646	M01b	6-10	1915	Mon	771 983	CW	(AB)
4570	M01b	9-10	1942	Thu	477 984 34 71355 91464 25383 15800 ... 63302 20324 12642 30673 29943 = = 984 34 000	MCW	(MPJ)
3625	M01b	10-10	1902	Fri	153 983 34 = = 71355 91464 25383 15800 84329 ... 63302 20324 12642 30693 29943 = = 984 34 000. 983 in preamble, 984 in postamble	MCW	(MPJ)
4605	M01b	16-10	1832	Thu	201 983 34 = = 71355 91464 25383 15800 ... 63302 20324 12642 30673 = = 984 984 34 34 000	MCW	(MPJ)
3511	M01b	16-10	1832	Thu	201 983 34 = = 71355 91464 25383 15800 ... 63302 20324 12642 30673 = = 984 984 34 34 000	MCW	(MPJ)
3823.86	M01b	17-10	1902	Fri	153 983 34 71355 91464 25383 15800 84329 ... 20324 63302 12642 30672 29943 = = 984 34	MCW	(MPJ)
4570	M01b	23-10	1942	Thu	477 983 34 = = 71355 91464 25383 ... 12642 30673 29943 = = 984 34 000	MCW	(MPJ)
4440	M01b	24-10	1902	Fri	153 984 34 = 71355 91464 25383 15800 ... 63302 20324 12642 30673 29943 = 984 34 000	MCW	(MPJ)
3625	M01b	24-10	1902	Fri	153 984 34 = 71355 91464 25383 15800 ... 63302 20324 12642 30673 29943 = 984 34 000	MCW	(MPJ)
5247	M01c	1-10	1605	Wed	52863 000. 111/13851 71513 85740 20159 02113 72170 59339 44570 08134 66932 000 (see N&O 205)	CW	(JPL-FNL)
7636	M01c	6-10	1106	Mon	111 000. 134 134 134 111 000	CW	(JPL-FNL)
9150	M03	2-10	1320	Thu	434/33 = = 44474 01230 95844 40245 05401 ... 43044 20271 17669 16662 53323 = = 434/33 (rpts)	CW	(MPJ)
13911	M03	3-10	1420	Fri	876/37 = 71053 88477 65908 ... 20951 81668 83530 = 876/37 = rpt msg = 000	CW	(AB/MPJ)
9150	M03	5-10	1320	Sun	434/33 = = 44474 01230 95844 40245 05401 ... 43044 20271 17669 16662 53323 = = 434/33	CW	(MPJ)
13911	M03	5-10	1420	Sun	876/37 71053 88477 65908 85161 87979 ... 42772 31079 20951 81668 83530 = = 876/37	CW	(MPJ)
5463	M03	6-10	1320	Mon	543/00 = 000	CW	(JE-HOL)
6977	M03	7-10	1535	Tue	798/00 = = 000	CW	(AB/MPJ)
9150	M03	9-10	1320	Thu	437/00	CW	(MPJ)
13911	M03	10-10	1420	Fri	879/00 = = 000	CW	(AB/MPJ)
6977	M03	11-10	1535	Sat	798/00	CW	(MPJ)
9150	M03	12-10	1320	Sun	437/00 = = 000	CW	(MPJ)
13911	M03	12-10	1420	Sun	879/00 = = 000	CW	(MPJ)
6977	M03	14-10	1535	Tue	795/38 = = 96643 68486 55881 28982 32659 ... 23497 51020 77516 84789 24936 = = 795/38	CW	(MPJ)
9150	M03	16-10	1320	Thu	437/00	CW	(AB/MPJ)
13911	M03	17-10	1420	Fri	879/00	CW	(AB/MPJ)
6977	M03	18-10	1535	Sat	795/38 = = 96643 68486 55881 28982 32659 ... 23497 51020 77516 84789 24936 =	CW	(MPJ)
9150	M03	19-10	1320	Sun	437/00	CW	(MPJ)
5463	M03	20-10	1320	Mon	541/38 = 86466 79676 55167 ... 71797 53602 67218 = rpt = 000	CW	(AnEur)
6977	M03	21-10	1535	Tue	798/00	CW	(MPJ)
13911	M03	24-10	1420	Fri	VVV 879/00 = = 000	CW	(AB)
6977	M03	25-10	1535	Sat	798/00	CW	(MPJ)
5463	M03	27-10	1320	Mon	543/00	CW	(MPJ)
6977	M03	28-10	1535	Tue	798/00 = = 000	CW	(AB/MPJ)
11635	M08a	2-10	1800	Thu	Cut nbrs. This should be HM01. Voice groups at 1801z. Both off 1802z. Both signals back on 1803z. RDFT sounds like messed up CW	CW	(DSch)
7554	M08a	3-10	2004	Fri	Cuban cut nbrs	CW	(DSch)
7554	M08a	4-10	2000	Sat	Cuban cut nbrs. AGNRN NNWTW DWTNN	CW	(DSch)
8096	M08a	6-10	1400	Mon	Cuban cut nbrs WTTNN RDUWA IRIIN	CW	(DSch)
8096	M08a	8-10	1400	Wed	Cuban cut nbrs UWUNN WRAWN RNNIA	CW	(DSch)
8095.8	M08a	9-10	1409	Thu	Cuban cut nbrs	CW	(DSch)
8134.5	M08a	9-10	2300	Thu	Cuban cut nbrs RNTRN UWDAW WGRDA	CW	(DSch)
8096.7	M08a	10-10	1418	Fri	No call up, into Cuban cut nbrs	CW	(DSch)
7554	M08a	10-10	2005	Fri	Cuban cut nbrs	CW	(DSch)
8096.1	M08a	15-10	1411	Wed	Cuban cut nbrs	CW	(DSch)
8096	M08a	16-10	1400	Thu	Cuban cut nbrs RGRN IWNTA GGWNA	CW	(DSch)
8135	M08a	16-10	2300	Thu	Cuban cut nbrs sending tfc but keying very bad	CW	(DSch)
7554	M08a	17-10	2000	Fri	Cuban cut nbrs AIUWA NAIGN DDAAA	CW	(DSch)
7554	M08a	18-10	2000	Sat	Cuban cut nbrs AGNRN NNWTA DWTNN	CW	(DSch)
8009	M08a	18-10	2309	Sat	Cuban cut nbrs. Should be on 8135 kHz	CW	(DSch)

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7554	M08a	19-10	2002	Sun	Cuban cut nbrs NNWTA DWTNN AGNRN	CW	(DSch)
7554	M08a	20-10	2000	Mon	Cuban cut nbrs	CW	(DSch)
7553	M08a	21-10	2001	Tue	Cuban cut nbrs FRAFRDA IUTGRN GFRUA	CW	(DSch)
8096	M08a	22-10	1402	Wed	Cuban cut nbrs	CW	(DSch)
8096	M08a	24-10	1409	Fri	Cuban cut nbrs	CW	(DSch)
7554	M08a	24-10	2016	Fri	Cuban cut nbrs	CW	(DSch)
8095.9	M08a	25-10	1405	Sat	Cuban cut nbrs	CW	(DSch)
8009	M08a	27-10	2305	Mon	Cuban cut nbrs	CW	(DSch)
8095.9	M08a	28-10	1401	Tue	Cuban cut nbrs	CW	(DSch)
7554	M08a	28-10	2002	Tue	Cuban cut nbrs	CW	(DSch)
8134.9	M08a	28-10	2306	Tue	Cuban cut nbrs	CW	(DSch)
7553.9	M08a	31-10	2004	Fri	No callup, goes into cut nbr grps	CW	(DSch)
5814	M12	1-10	2100	Wed	826 826 826 000	CW	(AB)
10269	M12	1-10	2110	Wed	220 229 229 000	CW	(AB)
5214	M12	1-10	2120	Wed	826 826 826 000	CW	(AB/AAl)
9269	M12	1-10	2130	Wed	220 229 229 000	CW	(AB)
7684	M12	2-10	0650	Thu	761 761 761 000	CW	(AB)
12214	M12	2-10	1310	Thu	282 282 282 000	CW	(MPJ)
10814	M12	2-10	1350	Thu	282 282 282 000	CW	(MPJ)
10343	M12	2-10	1700	Thu	124 1	CW	(HFD/JE-HOL)
9264	M12	2-10	1720	Thu	124 1	CW	(HFD)
8116	M12	2-10	1740	Thu	124 1	CW	(HFD)
10343	M12	2-10	1800	Thu	124 1 2516 109 91949 70679 05529 ... 49188 37337 68079 000 000	CW	(JE-HOL)
9264	M12	2-10	1820	Thu	124 1 2516 109 91949 70679 05529 ... 49188 37337 68079 000 000	CW	(JE-HOL)
7931	M12	2-10	1920	Thu	5F message ending 000 000	CW	(PPA)
10814	M12	4-10	1330	Sat	282 282 282 000	CW	(MPJ)
10269	M12	4-10	2110	Sat	229 0	CW	(HFD)
9269	M12	4-10	2130	Sat	229 0	CW	(HFD)
4617	M12	6-10	0430	Mon	638 0	CW	(HFD)
5317	M12	6-10	0450	Mon	638 0	CW	(HFD)
11435	M12	6-10	1600	Mon	938 1	CW	(HFD)
10598	M12	6-10	1620	Mon	938 1	CW	(HFD)
9327	M12	6-10	1640	Mon	938 1	CW	(HFD)
9176	M12	6-10	1900	Mon	257 1 5917 111 35881 24774 28667 ... 71691 76136 47804 000 000	CW	(MPJ)
8047	M12	6-10	1900	Mon	463 463 463 1 4327 55 4327 55 09283 32154 33279 ... 87457 69689 19988 000 000	CW	(AB)
7931	M12	6-10	1920	Mon	257 1 5917 111 35881 24774 28667 ... 71691 76136 47804 000 000	CW	(AB)
6904	M12	6-10	1940	Mon	257 1 5917 111 35881 24774 28667 ... 71691 76136 47804 000 000	CW	(AB)
5814	M12	8-10	2100	Wed	826 0	CW	(HFD)
5814	M12	8-10	2100	Wed	826 826 826 1 825 153 825 153 19118 65665 14397 ... 82674 70029 67273 000 000	CW	(AB)
10269	M12	8-10	2110	Wed	229 229 229 1 6864 167 6864 167 59917 49084 75637 ... 82790 65455 04825 000 000	CW	(AB)
5214	M12	8-10	2120	Wed	826 826 826 1 825 153 825 153 19118 65665 14397 ... 82674 70029 67273 000 000	CW	(AB)
9269	M12	8-10	2130	Wed	229 229 229 1 6864 167 6864 167 59917 49084 75637 ... 82790 65455 04825 000 000	CW	(AB)
4614	M12	8-10	2140	Wed	826 826 826 1 825 153 825 153 19118 65665 14397 ... 82674 70029 67273 000 000	CW	(AB)
7969	M12	8-10	2150	Wed	229 229 229 1 6864 167 6864 167 59917 49084 75637 ... 82790 65455 04825 000 000	CW	(AB)
6784	M12	9-10	0630	Thu	761 0	CW	(HFD)
7684	M12	9-10	0650	Thu	761 0	CW	(HFD)
12214	M12	9-10	1310	Thu	282 1 2586 189 28734 34906 48046 97941 ... 73732 22842 30031 92948 34840 000 000	CW	(MPJ)
10814	M12	9-10	1330	Thu	282 1 2586 189 28734 34906 48046 97941 ... 73732 22842 30031 92948 34840 000 000	CW	(MPJ)
9214	M12	9-10	1350	Thu	282 1 2586 189 28734 34906 48046 97941 ... 73732 22842 30031 92948 34840 000 000	CW	(MPJ)
10343	M12	9-10	1800	Thu	124 1 2461 105 04424 82654 62311 06308 ... 44211 63237 68734 65301 58393 000 000	CW	(MPJ)
9264	M12	9-10	1820	Thu	124 1 2461 105 04424 82654 62311 06308 ... 44211 63237 68734 65301 58393 000 000	CW	(MPJ)
8116	M12	9-10	1840	Thu	124 1 2461 105 04424 82654 62311 06308 ... 44211 63237 68734 65301	CW	(MPJ)

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					58393 000 000		
12214	M12	11-10	1310	Sat	282 1	CW	(HFD)
9214	M12	11-10	1330	Sat	282 1 2586 189 28734 34906 48046 97941 20083 ... 73732 22842 30031 92948 34840 000 000	CW	(MPJ)
10814	M12	11-10	1330	Sat	282 1 2586 189 28734 34906 48046 97941 20083 ... 73732 22842 30031 92948 34840 000 000	CW	(MPJ/HFD)
9214	M12	11-10	1350	Sat	282 1	CW	(HFD)
12092	M12	14-10	1232	Tue	i.p. 636 37372 37372 85527 85527 2146T 2146T 17954 17954 1468T 1468T 45923 45923 ...	CW	(LG2)
12214	M12	16-10	1310	Thu	282 282 282 000	CW	(AB/MPJ)
10814	M12	16-10	1330	Thu	282 282 282 000	CW	(AB/MPJ)
10343	M12	16-10	1800	Thu	124 1 3201 118 68185 05873 76795 34080 73259 ... 80477 69837 54256 40156 64606 000 000	CW	(MPJ)
9264	M12	16-10	1820	Thu	124 1 3201 118 68185 05873 76795 34080 73259 ... 80477 69837 54256 40156 64606 000 000	CW	(MPJ)
8116	M12	16-10	1840	Thu	124 1 3201 118 68185 05873 76795 34080 73259 ... 80477 69837 54256 40156 64606 000 000	CW	(MPJ)
8047	M12	16-10	1900	Thu	463 1 2785 59 32403 74049 99203 59468 81224 ... 95657 99230 40731 22575 17286 000 000	CW	(MPJ)
6802	M12	16-10	1920	Thu	463 1 2785 59 32403 74049 99203 59468 81224 ... 95657 99230 40731 22575 17286 000 000	CW	(MPJ)
7932	M12	18-10	0520	Sat	892 892 892 000	CW	(AB)
4380	M12	19-10	2107	Sun	124 124 124 000	CW	(AAI)
11435	M12	20-10	1600	Mon	938 1 5892 120 61915 21105 81185 ... 00515 11428 89900 000 000	CW	(AB/DSch)
10598	M12	20-10	1620	Mon	938 1 5892 120 61915 21105 81185 ... 00515 11428 89900 000 000	CW	(AB)
9327	M12	20-10	1640	Mon	938 1 5892 120 61915 21105 81185 ... 00515 11428 89900 000 000	CW	(AB)
8047	M12	20-10	1700	Mon	463 1 8334 144 98026 59758 93834 ... 06954 34736 38483 000 000	CW	(AB)
6802	M12	20-10	1720	Mon	463 1 8334 144 98026 59758 93834 ... 06954 34736 38483 000 000	CW	(AB/MPJ)
5788	M12	20-10	1740	Mon	463 1 8334 144 98026 59758 93834 ... 06954 34736 38483 000 000	CW	(AB)
9176	M12	20-10	1900	Mon	257 1 7476 119 35725 14668 68020 ... 88156 11353 86347 000 000	CW	(AB)
7931	M12	20-10	1920	Mon	257 1 7476 119 35725 14668 68020 ... 88156 11353 86347 000 000	CW	(AB)
6904	M12	20-10	1940	Mon	257 1 7476 119 35725 14668 68020 ... 88156 11353 86347 000 000	CW	(AB/MPJ)
12205	M12	22-10	1130	Wed	973 4095 204 23867 25124 67849 ... 26360 01880 083...	CW	(MPJ)
12214	M12	23-10	1310	Thu	282 282 282 000	CW	(MPJ)
10814	M12	23-10	1330	Thu	282 282 282 000	CW	(AB/MPJ)
10343	M12	23-10	1800	Thu	124 1 4780 108 35893 77718 56421 ... 63757 34039 06727 000 000	CW	(MPJ)
9264	M12	23-10	1820	Thu	124 1 4780 108 35893 77718 56421 ... 63757 34039 06727 000 000	CW	(MPJ)
8116	M12	23-10	1840	Thu	124 1 4780 108 35893 77718 56421 ... 63757 34039 06727 000 000	CW	(MPJ)
8047	M12	23-10	1900	Thu	463 1 5657 69 92099 39595 77230 ... 78492 15322 22892 000 000	CW	(MPJ)
6802	M12	23-10	1920	Thu	463 1 5657 69 92099 39595 77230 ... 78492 15322 22892 000 000	CW	(MPJ)
5788	M12	23-10	1940	Thu	463 1 5657 69 92099 39595 77230 ... 78492 15322 22892 000 000	CW	(MPJ)
12214	M12	25-10	1310	Sat	282 000	CW	(MPJ)
8047	M12	27-10	1800	Mon	463 1 2655 149 ... 5FGs	CW	(AB)
6802	M12	27-10	1820	Mon	463 1 2655 149 ... 5FGs	CW	(AB)
5788	M12	27-10	1840	Mon	463 1 2655 149 ... 5FGs	CW	(AB)
9176	M12	27-10	1900	Mon	257 1 4454 109 94112 69719 39355 23067 88197 ... 39507 99705 69884 17159 68714 000 000	CW	(MPJ)
10343	M12	28-10	1930	Tue	124 1 4067 59 10517 23955 73860 ... 62487 63525 37371 000 000	CW	(AB/MPJ)
9264	M12	28-10	1950	Tue	124 1 4067 59 10517 23955 73860 ... 62487 63525 37371 000 000	CW	(AB/MPJ)
8116	M12	28-10	2010	Tue	124 1 4067 59 10517 23955 73860 ... 62487 63525 37371 000 000	CW	(AB/MPJ)
8047	M12	29-10	1800	Wed	463 1 4289 100 72243 33136 30014 52943 51182 ... 65180 98762 00703 81842 18956 000 000	CW	(MPJ)
6802	M12	29-10	1820	Wed	463 1 4289 100 72243 33136 30014 52943 51182 ... 65180 98762 00703 81842 18956 000 000	CW	(MPJ)
5788	M12	29-10	1840	Wed	463 1 4289 100 72243 33136 30014 52943 51182 ... 65180 98762 00703 81842 18956 000 000	CW	(MPJ)
11435	M12	29-10	1930	Wed	938 1 4265 68 65297 19392 59197 5_935 90548 ... 85954 73064 15748 86534 96756 000 000	CW	(MPJ)
10598	M12	29-10	1950	Wed	938 1 4265 68 65297 19392 59197 5_935 90548 ... 85954 73064 15748 86534 96756 000 000	CW	(MPJ)
9327	M12	29-10	2010	Wed	938 1 4265 68 65297 19392 59197 5_935 90548 ... 85954 73064 15748 86534 96756 000 000	CW	(MPJ)
5814	M12	29-10	2100	Wed	826 1 7019 63 56235 42173 43532 52949 21618 ... 92779 94551 31896 05427 81615 000 000	CW	(MPJ)
12214	M12	30-10	1310	Thu	282 282 282 000	CW	(MPJ)

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12189	M12	30-10	1720	Thu	725 1 7739 111 7739 111 98453 71947 49386 ... 89587 00888 30266 000 000	CW	(AB)
11491	M12	30-10	1740	Thu	725 1 7739 111 7739 111 98453 71947 49386 ... 89587 00888 30266 000 000	CW	(AB)
10343	M12	30-10	1800	Thu	124 1 3699 154 3699 154 20780 48392 77959 ... 69127 40417 10704 000 000	CW	(AB/MPJ)
9176	M12	30-10	1800	Thu	257 1 4209 94 20206 ...	CW	(AB)
7931	M12	30-10	1820	Thu	257 1 4209 94 20206 ...	CW	(AB)
9264	M12	30-10	1820	Thu	124 1 3699 154 3699 154 20780 48392 77959 ... 69127 40417 10704 000 000	CW	(AB/MPJ)
5944	M14	3-10	1700	Fri	382 382 382 00000	CW	(AB)
5477	M14	3-10	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
18041	M14	6-10	0500	Mon	952 814 60 = = 45574 73829 65162 01163 47978 91824 64438 36115 ...	CW	(Danix)
5947	M14	14-10	1820	Tue	346 752 020 44108 38962 04169 ... 28305 68131 82828 00000	MCW	(MPJ)
5463	M14	15-10	1920	Wed	537 621 020 51059 23438 76167 ... 84274 96823 17105 385 385 020 020 00000	CW	(MPJ)
18041	M14	16-10	0500	Thu	952 861 55 54724 39527 63510 ... 97627 45298 68084 861 55 00000	CW	(AB)
5945.5	M14	17-10	1700	Fri	382 382 382 00000	CW	(AB/MPJ)
5477	M14	17-10	1800	Fri	382 382 382 00000	CW	(MPJ)
18041	M14	20-10	0500	Mon	952 847 60 = 46817 73164 10308 ... 55464 15883 21047 = 847 60 00000	CW	(AnEur)
10212	M14	21-10	1301	Tue	636 (R) 748 748 50 50 = = 58556 84577 68565 ... 89184 34560 71205 = = 748 748 50 50 00000	CW	(JPL-FNL)
5201	M21	8-10	0046	Wed	=990446??0?????	CW	(JPL-FNL)
4636	M21	20-10	0420	Mon	=990820??0?????	CW	(Avare)
6607	M22	1-10	2138	Wed	VVV DE 4XZ 4XZ = = AR AR NW QTTN 1 NR 92 = = NR 92 AG V TB8T 200 020 WH6P GR 2W T = = 5FGs	CW	(AB)
6607	M22	22-10	1856	Wed	VVV DE 4XZ 4XZ = =	CW	(PPA)
7664	M24	20-10	2000	Mon	381 957 103 = 40115 35657 34403 ... 73005 75459 38966 = 957 103 00000	CW	(Danix)
6794	M24	20-10	2000	Mon	381 (R4) 957 957 103 103 = = 40115 35657 34403 ... 73005 75459 38966 = = 957 957 103 103 00000	CW	(Danix)
7664	M24	20-10	2000	Mon	381 (R4) 957 957 103 103 = = 40115 35657 34403 ... 73005 75459 38966 = = 957 957 103 103 00000	CW	(Danix)
6794	M24	20-10	2030	Mon	381 957 103 = 40115 35657 34403 ... 73005 75459 38966 = 957 103 00000	CW	(Danix)
10683	M32	3-10	0900	Fri	XXX XXX SIJG SIJG 40713 NASTUPLNIE 8300 2358	CW	(JU)
5770	M32	3-10	1716	Fri	RSK6 RSK6 DE RWI2 QSA? PSE K	CW	(JPL-FNL)
7963	M32	4-10	1705	Sat	NQ6N QTC ZIR AR	CW	(NH2)
7963	M32	4-10	1706	Sat	4E5W 685 26 4 2048 885 = ZIR 664 = M M M M M RBZDO ILAKK AKITA. (04Oct14) (N	CW	(NH2)
7963	M32	4-10	1709	Sat	WCL3 DE 4E5W R 785? K	CW	(NH2)
7963	M32	4-10	1710	Sat	AD80 DE 4E5W R 785? K	CW	(NH2)
7963	M32	4-10	1711	Sat	Y6DE DE 4E5W R 785? K	CW	(NH2)
7963	M32	4-10	1712	Sat	2DE8 DE 4E5W R 785? K	CW	(NH2)
7963	M32	4-10	1713	Sat	X124 DE 4E5W R 785? K	CW	(NH2)
7963	M32	4-10	1714	Sat	LEV8 DE 4E5W R 785? K	CW	(NH2)
7963	M32	4-10	1717	Sat	LEV8 DE 4E5W QTC ZTO K	CW	(NH2)
7963	M32	4-10	1718	Sat	4E5W 656 19 4 2104 656 = ZTO 998 = followed by 5 letter group message.	CW	(NH2)
10131	M32	8-10	0913	Wed	Westher i.p. 44 = 08150 32835 93460 80302 10032 70252 8653X 915XX 08150 ...	CW	(JPL-FNL)
7908	M32	8-10	0925	Wed	1515 520 = 0023 = D D D D D CFYVU FAPQD SXQTV MMLOE SXQTV MMLOE SXQTV (Cont'd)	CW	(JPL-FNL)
7983	M32	8-10	0926	Wed	R 520 k. Y12Q R 520 K. IBIV R 520 K	CW	(JPL-FNL)
7969	M32	8-10	0929	Wed	WIB2 QSA 3 QSA ? K. OHE9 QSA 2 K. R K	CW	(JPL-FNL)
3796	M32	11-10	1700	Sat	VONL DE D7TZ K	CW	(JPL-FNL)
18.1	M32	12-10	1208	Sun	RDL: Russian Mil Strategic Bcast. XXX RDL 00426 86163 WOLKONEä 5299 9217 K. //22864 kHz	CW	(MPJ)
22864	M32	12-10	1208	Sun	RDL: Russian Mil Strategic Bcast. XXX RDL 00426 86163 WOLKONEä 5299 9217 K. //18.1 kHz	CW	(MPJ)
16048	M32	12-10	1331	Sun	WYNJ de MNK6 K. R K	CW	(MPJ)
14576	M32	13-10	1130	Mon	i.p. DE 3GBX =	CW	(MCO)
6880	M32	13-10	1435	Mon	Russian mil. 10-count test	USB	(AB)
6472	M32	21-10	0537	Tue	VVVVVVVVV S3HF S3HF S3HF DE S2GB S2GB ZXT ZUW RPT ZXT ZUW K	CW	(BCI)
3844	M32	21-10	1506	Tue	XXX XXX JSJ8 JSJ8 05391 PERED'A 4452 05391 PEREDA'A 4452 K VA AR	CW	(JPL-FNL)

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18.1	M32	23-10	1626	Thu	XXX WEGI 89615 07359 PEChEC 9616 6838 K. XXX followed by many T-600 messages	CW	(MPJ)
8345	M32a	1-10	1909	Wed	RMP de RFE76 (Sibiryakov Survey/Research ship clg Baltic Fleet HQ, Kaliningrad)	CW	(Faux)
4576	M32a	6-10	1216	Mon	06121 99726 10480 41/92 /2705 10053 40292 54019 72814 .//// 22262 003III 8//// 22262 00030 299// 399// 06014 = AR RJI92 K	CW	(JPL-FNL)
4537	M32a	6-10	1220	Mon	/// 80000 8.000 06017 = AR RJI70 K. RBC89 RPT 125 17 6 1602 125 = FOR RJD90 RJH74 K	CW	(JPL-FNL)
12464	M32a	11-10	0914	Sat	RFE76 916 22 11 1308 916 = SML FOR RJH45 RJH74 RJD38 = 11091 99487 70059 42497 ...	CW	(JU)
10683	M32a	12-10	1154	Sun	XXX XXX W6BY W6BY 38309 MELOWANNYJ 6663 4673	CW	(JU)
10535	M32a	12-10	1158	Sun	UUU XXX XXX W6BY W6BY 47118 38309 MELOWANNYJ 6663 4673	CW	(JU)
10535	M32a	12-10	1205	Sun	RFE76 428 22 12 1600 428 = SML FOR RJH45 RJH74 RJD38 = (interrupted by a flash message)	CW	(JU)
11155	M32a	12-10	1206	Sun	XXX XXX RLO RLO 86161 WOLKONEAe 5299 9217	CW	(JU)
10535	M32a	12-10	1208	Sun	00426 86161 WOLKONEAe 5299 9217 (interrupted a weather bulletin)	CW	(JU)
10543	M32a	13-10	1653	Mon	XXX XXX RJV RJV 81127 BATRAŌIHA 1425 9855 KOŌECHB 5663 1553 K (confirmed only by RJT22/12464)	CW	(WP3)
12464	M32a	13-10	1809	Mon	RIT DE RFE76 317 22 13 2205 317 = SML FOR RJH45 RJH74 RJD38 = 13181 99408 70101 41397 62608 ...	CW	(WP3)
10540	M32a	21-10	1315	Tue	RAA enciphered Morse sked setups with warship RJD52 de RAA ZKM? ZDS GNGCh ZTT ...	CW	(MPJ)
6364	M32a	21-10	1607	Tue	VVV RIT RIT RIT DE RAA RAA QSA? K. RJD71 RJD71 RJD71 DE RAA RAA QSA? K	CW	(JU)
6364	M32a	21-10	1612	Tue	RIT DE RAA K. RAA QRR3 QDW 10540 K	CW	(JU)
10540	M32a	21-10	1616	Tue	RIT DE RAA ZDZ2. ZN'E TRI DEWAeTX TRI (393) ZN'E? K RAA DE RIT ZN'E NOLX NOLX ChESTX (006)	CW	(JU)
8162	M32c	7-10	0600	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	7-10	0620	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	7-10	0623	Tue	Tu-95MS Bear H net: ?1FE DE 4ASU QSA? K	CW	(Tom)
8162	M32c	13-10	1616	Mon	Tu-95MS Bear H net NCS. P1FE DE 4ASU QRV K. 4ASU = 056 799 979 326 855 KC ? K	CW	(Tom)
9027	M32c	13-10	1616	Mon	Tu-95MS Bear H net air end. 4ASU DE P1FE QTC K. P1FE = 056 799 979 326 855 K	CW	(Tom)
8162	M32c	13-10	1620	Mon	W-markers	CW	(Tom)
8162	M32c	23-10	0600	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	24-10	0600	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	29-10	1800	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	30-10	1200	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
8007	M42	2-10	1900	Thu	Russian diplo/intel. 6 54	FSK 200/500	(HFD)
5844	M42	2-10	1910	Thu	Russian diplo/intel. 6 54	FSK 200/500	(HFD)
4633	M42	2-10	1920	Thu	Russian diplo/intel. 6 54	FSK 200/500	(HFD)
19526	M42	4-10	1200	Sat	Russian diplo/intel. 8 00	FSK 200/500	(HFD)
17463	M42	4-10	1210	Sat	Russian diplo/intel. 8 00	FSK 200/500	(HFD)
15824	M42	4-10	1220	Sat	Russian diplo/intel. 8 00	FSK 200/500	(HFD)
16320	M42	10-10	0150	Fri	Russian diplo/intel. Messages on links 26732, 13366, 57466, 32826, 41018, 41086	FSK 200/1000	(Dan)
14880	M42	10-10	0230	Fri	Russian diplo/intel. Messages on links 13362, 41018, 00058	FSK 200/1000	(Dan)
10200	M42	21-10	1251	Tue	Russian Gov/Intel. QSY 81944 K. NIL SK NT9P NT9P NT9P DE K4MT K4MT QSA 3 QSA? K	CW + Baudot 50/500	(JPL-FNL)
11027	M42	21-10	1253	Tue	Russian diplo	CROWD-36	(AAI)
20608	M42	28-10	1350	Tue	Russian diplo/intel. Messages for link id's 13876, 65535, 32799	FSK 200/1000	(AB)
16325	M42	28-10	1420	Tue	Russian diplo/intel. Messages for link id 32799	FSK 200/1000	(AB)
8016	M51	5-10	1234	Sun	i.p. scvhz avgwr vkxdk ltduo = nr 12 o 01 14:36:24 2014 = hzwty onds w aiecu ...	CW	(AB)
5453	M51	14-10	1553	Tue	NR 50 O 15 17:53:23 2014 BT LFZUT ZQXOE GWDVK CTQIV QTNKN ...	CW	(MPJ)
6234.5	M51	14-10	1806	Tue	ZSATK RCGKM PPFXX FNEYK UINHR DRAXV SJPFJ ZDSQS PMHUE QWJAI HXLYO ...	CW	(LG2)
3164	M51	15-10	1920	Wed	= NR 43 O 16 21:19:42 2014 =	CW	(Faux)
5453	M51	24-10	2056	Fri	= NR 83 o 24 23:56:28 2014 =	CW	(Faux)
5657	M89	30-9	1905	Tue	V GKLO GKLO GKLO DE TYUI TYUI	CW	(PPA)
5801	M89	30-9	1942	Tue	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
5500	M89	1-10	1148	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3777	M89	1-10	1152	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	1-10	1152	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
3330	M89	1-10	1153	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5657	M89	1-10	1154	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5801	M89	1-10	1156	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	1-10	1156	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	1-10	1554	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	1-10	1556	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5500	M89	1-10	1557	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5657	M89	1-10	1558	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	1-10	1559	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	1-10	1559	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3330	M89	3-10	1406	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	3-10	1408	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	3-10	1409	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5657	M89	3-10	1410	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	3-10	1410	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5500	M89	3-10	1411	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8888	M89	3-10	1412	Fri	i.p. 4NN5 DD5N 75NU 73AD 3765 D6ND (Cont'd) III = .D3IM 3EE	CW	(JPL)
4444	M89	3-10	1419	Fri	i.p. 05 (Cont'd - long zero) 473565D6743NE	CW	(JPL)
6840	M89	3-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	3-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
7602	M89	3-10	1712	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	3-10	1712	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	3-10	1850	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	3-10	1850	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
7602	M89	3-10	1953	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	3-10	2118	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	3-10	2119	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	3-10	2119	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6840	M89	3-10	2120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	3-10	2120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5657	M89	3-10	2121	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	3-10	2121	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4532	M89	3-10	2124	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	3-10	2124	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5500	M89	3-10	2125	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7602	M89	4-10	1628	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	M89	4-10	1940	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	4-10	1940	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	4-10	1942	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5657	M89	4-10	1944	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	5-10	1532	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	5-10	1534	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	5-10	1535	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	5-10	1535	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	5-10	1536	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3820	M89	5-10	1537	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	5-10	1537	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
7602	M89	5-10	1705	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	5-10	1705	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	5-10	2232	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	5-10	2232	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5500	M89	5-10	2234	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5657	M89	5-10	2237	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	5-10	2237	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6793	M89	5-10	2243	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
4131	M89	5-10	2245	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5801	M89	6-10	1145	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	6-10	1145	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8073	M89	6-10	1148	Mon	i.p. 4ANNN343547443D3DTTU4 (Cont'd)	CW	(JPL)
4532	M89	6-10	1155	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	6-10	1155	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	6-10	1157	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
5500	M89	6-10	1158	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3330	M89	7-10	1354	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	7-10	1356	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	7-10	1358	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	7-10	1358	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	7-10	1359	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	7-10	1359	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
7602	M89	8-10	0042	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	8-10	0042	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
10180	M89	8-10	1110	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	8-10	1110	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
6840	M89	8-10	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
4532	M89	8-10	1134	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	8-10	1134	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	8-10	1136	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5657	M89	8-10	1137	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	8-10	1137	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3330	M89	8-10	1537	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	8-10	1538	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	8-10	1538	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	8-10	1539	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	8-10	1539	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	8-10	1540	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	8-10	1540	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3330	M89	8-10	1934	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	8-10	1935	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	8-10	1935	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	8-10	1937	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	8-10	1937	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	8-10	1938	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	8-10	1938	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	8-10	2206	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	8-10	2207	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	8-10	2207	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	8-10	2209	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	8-10	2209	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	8-10	2210	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	8-10	2210	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4860	M89	8-10	2220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	8-10	2220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
10180	M89	9-10	1131	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	9-10	2203	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	9-10	2205	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5657	M89	9-10	2206	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	9-10	2206	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4532	M89	9-10	2208	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777 //6793 //8060	CW	(JPL)
3777	M89	9-10	2208	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532 //6793 //8060	CW	(JPL)
6793	M89	9-10	2208	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532 //3777 //8060	CW	(JPL)
8060	M89	9-10	2208	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532 //3777 //6793	CW	(JPL)
10421	M89	10-10	1000	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	10-10	1000	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10180	M89	10-10	1002	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
6793	M89	10-10	1004	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	10-10	1004	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
4532	M89	10-10	1006	Fri	VV CWI2 K. R QSA 2 NIL SK. R OK ... VV 4XPB K. R R DE 7Q1M QSA 2 K 3777//4532//6793//8060	CW	(JPL)
5588	M89	10-10	1019	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6840	M89	10-10	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	10-10	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6666	M89	10-10	1026	Fri	i.p. NR 1492 CK CK 1034 2. 1.1. 145 K. R ... 05 05 05 (Cont'd)	CW	(JPL)
10180	M89	10-10	1146	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	10-10	1146	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
3330	M89	10-10	1149	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	10-10	1151	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	10-10	1151	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
10421	M89	10-10	1153	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	10-10	1153	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
8073	M89	10-10	1153	Fri	i.p. 3D34 DT 4D6TUNN34T33773357 373 4T3 C 3435 4744 3D3D TTTU 4DT4 D547 6 AR AR	CW	(JPL)
5555	M89	10-10	1201	Fri	(i.p. R R 7G 7G NR WEEE 7G 7G NR 0../CCK CK .0 600904 .100 RMKS .0153 TO 505..5373 TO A8260.5013 K K	CW	(JPL)
3642	M89	10-10	1419	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	10-10	1419	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6840	M89	10-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
5657	M89	10-10	1425	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5177	M89	10-10	1426	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3642	M89	10-10	1627	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	10-10	1627	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	10-10	1629	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	10-10	1629	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	10-10	1630	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	10-10	1630	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3330	M89	10-10	1845	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	10-10	1846	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	10-10	1846	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	10-10	1847	Fri	V M8JF DE RIS9 UGT COMM BT 328/1335/1585/10/11/0320/590/A/57/97 AR //3777	CW	(JPL)
3777	M89	10-10	1847	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	10-10	1852	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	10-10	1852	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	10-10	2135	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	10-10	2137	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	10-10	2137	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	10-10	2138	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	10-10	2138	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	10-10	2139	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	10-10	2139	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
8072	M89	11-10	1011	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	11-10	1013	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
8060	M89	11-10	1014	Sat	NUA 7A4T 5734 6A7U UAD6 76NU (Cont'd)	CW	(JPL)
5588	M89	11-10	1016	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
10640	M89	11-10	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	11-10	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
8060	M89	11-10	1028	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
10180	M89	11-10	1037	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	M89	11-10	1658	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	11-10	1658	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	11-10	1704	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	11-10	1808	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	11-10	1810	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	11-10	1812	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	11-10	1812	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	11-10	1814	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	11-10	1814	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3330	M89	13-10	1939	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	13-10	1942	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	13-10	1942	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	13-10	1946	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	13-10	1946	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	13-10	1948	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	13-10	1948	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6793	M89	13-10	2309	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	13-10	2310	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	13-10	2310	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
7602	M89	13-10	2312	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
6840	M89	13-10	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	13-10	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
10640	M89	14-10	0220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	14-10	0220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
8072	M89	14-10	0225	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	14-10	0225	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8110	M89	14-10	0226	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8072	M89	14-10	1057	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	14-10	1057	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
10180	M89	14-10	1100	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	14-10	1101	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	14-10	1102	Tue	(i.p. 8 OBS = 3DT.4 3.6TA 5DT5T D ? DA65T TTUT3 ATTNU UTANN N3U6T AR K (see N&O 205)	CW	(JPL)
3777	M89	14-10	1102	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	14-10	1102	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
10180	M89	14-10	1118	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	14-10	1118	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
6840	M89	14-10	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3330	M89	14-10	1125	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3519	M89	14-10	1125	Tue	(i.p. TAU. 4T7D 753D .A367 (Cont'd)	CW	(JPL)
3845	M89	14-10	1130	Tue	i.p. DDNN TT43 5A7N 37U3 5T3 ? 5T36 NN74 7D45 (Cont'd)	CW	(JPL)
5110	M89	14-10	1135	Tue	(i.p. 071/C991/6918/97/41/11/949/COMM/8839 AR	CW	(JPL)
5147	M89	14-10	1141	Tue	i.p. 65D6 N74U UDTN 7D.. (Cont'd)	CW	(JPL)
8073	M89	14-10	1148	Tue	i.p. 4D6T AN77 3TUA 7733 (Cont'd)	CW	(JPL)
10421	M89	14-10	1205	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	14-10	1205	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
5801	M89	14-10	1208	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	14-10	1208	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
4000	M89	14-10	1221	Tue	i.p. IIA84 I 0A90WWWW WU 0W UF INDD N0AWUG TS S DDD8 BD D (see N&O 205)	CW	(JPL)
7602	M89	14-10	2257	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	14-10	2257	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5657	M89	14-10	2300	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	14-10	2300	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	14-10	2304	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6575	M89	15-10	0206	Wed	CQ (x3) DE DP91 (x2) V PSE F OF LL TO HR AHR NIL SK GB	CW	(JPL)
5801	M89	15-10	0216	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	15-10	0216	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8212	M89	15-10	0224	Wed	i.p. MSG NR 0650 CK 200 EX 1015 1025 = OK GA GA (see N&O 205)	CW	(JPL)
6688	M89	15-10	0240	Wed	i.p. T54T 76.. U.T7 37T6 DU5. (Cont'd)	CW	(JPL)
5381	M89	15-10	0947	Wed	i.p. R RPT 14W = 6TT5 6TT5 AR K. QSL 1746 K	CW	(JPL)
6575	M89	15-10	1007	Wed	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
5383	M89	15-10	1017	Wed	i.p. AR QSL ? K. VV VCDF DE RTJH K	CW	(JPL)
5588	M89	15-10	1024	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5588	M89	15-10	1024	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
10180	M89	15-10	1025	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8072	M89	15-10	1028	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6793	M89	15-10	1029	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	15-10	1029	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
5801	M89	15-10	1047	Wed	i.p. III BU36 DNUN U3N3 D73A (Cont'd)	CW	(JPL)
5555	M89	15-10	1102	Wed	i.p. MSG GA PSE CY. R MSG. NIL SK	CW	(JPL)
6840	M89	16-10	0120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	16-10	0120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8072	M89	16-10	0927	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6793	M89	16-10	0929	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	16-10	0929	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //7693	CW	(JPL)
10180	M89	16-10	0937	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	16-10	1343	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	16-10	1345	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	16-10	1346	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	16-10	1346	Thu	V M8JF DE RIS9. CQ MSG NR 18. CK 92 40 1015 2... RMKS 1585 TO 1021	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
					.375 17.5 = UAU4 .T74 5.5. D5U4 ... //4532		
3820	M89	16-10	1354	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	16-10	1354	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	16-10	1650	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd	CW	(JPL)
3642	M89	16-10	1652	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	16-10	1652	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	16-10	1653	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	16-10	1653	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	16-10	1654	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	16-10	1654	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4131	M89	16-10	1656	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	16-10	2207	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd	CW	(JPL)
3777	M89	16-10	2208	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3642	M89	16-10	2208	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	16-10	2208	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
7602	M89	16-10	2208	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	16-10	2210	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	16-10	2210	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4860	M89	16-10	2220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	16-10	2220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4131	M89	16-10	2225	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6793	M89	16-10	2234	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	16-10	2234	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //7693	CW	(JPL)
6575	M89	17-10	0200	Fri	CQ (x3) DE DP91 (x2) V	CW	(JPL)
5177	M89	17-10	0213	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5801	M89	17-10	0214	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	17-10	0214	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10421	M89	17-10	0217	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8082	M89	17-10	0221	Fri	i.p. 7UN5 5..7 N3N. AU3U D534 (Cont'd) III CK CK.. GA	CW	(JPL)
10421	M89	17-10	1055	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	17-10	1055	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
6793	M89	17-10	1057	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	17-10	1057	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
10180	M89	17-10	1059	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	17-10	1059	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
5177	M89	17-10	1100	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5313	M89	17-10	1102	Fri	V TFBJ DE GRV5	CW	(JPL)
3820	M89	17-10	1116	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	17-10	1116	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6840	M89	17-10	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
4532	M89	17-10	1124	Fri	V M8JF DE RIS9 UGT COMM BT 328/1008/1585/10/17/1955/555/A/57/97 AR //3777	CW	(JPL)
3777	M89	17-10	1124	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	17-10	1132	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5351	M89	17-10	1303	Fri	(i.p. 563U 4UAA 3T4U 3T5A (Cont'd) AR 5DMY K	CW	(JPL)
5331	M89	17-10	1310	Fri	i.p. 4646D DAD3 DAT6 747N T3T4 TNN6 (Cont'd)	CW	(JPL)
5325	M89	17-10	1315	Fri	i.p. OK OK 1 K. R 7G GA. = = 37N4 6..7 7A3D 5NA6 DU4N T46A A57U (Cont'd)	CW	(JPL)
5220	M89	17-10	1329	Fri	(i.p. A343 3D4D 365D T6NT UD6D (Cont'd) R QSL 2135 K	CW	(JPL)
5535	M89	17-10	1340	Fri	i.p. N3UU 4DUN 477A U37D A6U5 (Cont'd) III III =	CW	(JPL)
3642	M89	17-10	1346	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	17-10	1346	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4325	M89	17-10	1351	Fri	i.p. U7D3 A3N3 3637 5T65 DN4N 4N34 (Cont'd)	CW	(JPL)
4777	M89	17-10	1355	Fri	i.p. III III = = A345 N3N3 5634 U7DD TT43 UD5D (Cont'd)	CW	(JPL)
5177	M89	17-10	1400	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5325	M89	17-10	1406	Fri	i.p. 673N TA75 NT64 7TA4 NU36 T347 DAU5 (Cont'd)	CW	(JPL)
6840	M89	17-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	17-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
4131	M89	17-10	1902	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
10421	M89	20-10	0913	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	20-10	0913	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
5588	M89	20-10	0917	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
6793	M89	20-10	0919	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	20-10	0919	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
10640	M89	20-10	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	20-10	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
8110	M89	20-10	0925	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8888	M89	20-10	0926	Mon	CO8Q DE 8KSU	CW	(JPL)
6840	M89	20-10	1320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	20-10	1320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5801	M89	20-10	1327	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	20-10	1327	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	20-10	1329	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3820	M89	20-10	1330	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	20-10	1330	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
5500	M89	20-10	1332	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4532	M89	20-10	1333	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	20-10	1333	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3642	M89	20-10	2012	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	20-10	2012	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3330	M89	20-10	2013	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	20-10	2014	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	20-10	2014	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	20-10	2015	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	20-10	2015	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5500	M89	20-10	2016	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4860	M89	20-10	2020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	20-10	2020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
3330	M89	21-10	1130	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3820	M89	21-10	1131	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	21-10	1131	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4532	M89	21-10	1133	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	21-10	1133	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5500	M89	21-10	1134	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
10180	M89	21-10	1255	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	21-10	1255	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
6840	M89	21-10	1320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	21-10	1320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3642	M89	21-10	1456	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	21-10	1456	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	21-10	1510	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3642	M89	21-10	2104	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	21-10	2105	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	21-10	2106	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	21-10	2106	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4860	M89	21-10	2120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	21-10	2120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4131	M89	21-10	2123	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
10421	M89	22-10	1030	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	22-10	1030	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
8060	M89	22-10	1034	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5588	M89	22-10	1035	Wed	i.p. III = ATN4 65UT A4U5 6TNU U73T (Cont'd)	CW	(JPL)
3330	M89	22-10	1102	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8060	M89	22-10	1106	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777 and 4532	CW	(JPL)
3777	M89	22-10	1106	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060 and 4532	CW	(JPL)
4532	M89	22-10	1106	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060 and 3777	CW	(JPL)
5801	M89	22-10	1111	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	22-10	1111	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	22-10	1830	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	22-10	1833	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	22-10	1833	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	22-10	1834	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060 and 3777	CW	(JPL)
3777	M89	22-10	1834	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060 and 4532	CW	(JPL)
5657	M89	22-10	1835	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
3820	M89	22-10	1835	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	22-10	1840	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
10421	M89	23-10	0032	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	23-10	1049	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	23-10	1111	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	23-10	1112	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	23-10	1112	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	23-10	1113	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	23-10	1113	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3642	M89	23-10	2042	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	23-10	2042	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3330	M89	24-10	1408	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	24-10	1409	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5657	M89	24-10	1410	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6666	M89	24-10	1414	Fri	i.p. 7335 N44N 6740 3AU5 T435 45A6 DN6U (Cont'd)	CW	(JPL)
6840	M89	24-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	24-10	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
7602	M89	24-10	1744	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	24-10	1744	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5657	M89	24-10	1746	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3820	M89	24-10	1748	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	24-10	1748	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4532	M89	24-10	1749	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3330	M89	24-10	1750	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	24-10	1933	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	24-10	1935	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	24-10	1935	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	24-10	1936	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	24-10	1936	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	24-10	1938	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	24-10	2139	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	24-10	2140	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	24-10	2140	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	24-10	2143	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	24-10	2143	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	24-10	2144	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5801	M89	25-10	1218	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	25-10	1218	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
6840	M89	25-10	1220	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3642	M89	25-10	1515	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	25-10	1515	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	25-10	1519	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	25-10	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3330	M89	25-10	1655	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	25-10	1656	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	25-10	1656	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	25-10	1658	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5657	M89	25-10	1659	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	25-10	1659	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
8888	M89	25-10	1704	Sat	i.p. = ..U7 UND7 3U45 DTUA 43A6 DAT6 = QSW K TGUD SO ZR EEEEEZ/ QBT	CW	(JPL)
3330	M89	25-10	2135	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	25-10	2136	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	25-10	2136	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	25-10	2138	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	25-10	2138	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	25-10	2139	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	25-10	2139	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
10180	M89	26-10	1303	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	26-10	1303	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3330	M89	26-10	1305	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	26-10	1306	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
3820	M89	26-10	1307	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	26-10	1307	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	26-10	1607	Sun	V MW3D DE 2SLC III U6.. U7NT AN.N DTA3 76AT D635 73UT 4675 TT5U TTT3 (Cont'd)	CW	(JPL)
3642	M89	26-10	1625	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	26-10	1625	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	26-10	1626	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	26-10	1627	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	26-10	1627	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
10421	M89	27-10	0145	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8110	M89	27-10	0147	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8072	M89	27-10	1028	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	27-10	1028	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
10180	M89	27-10	1030	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
8060	M89	27-10	1031	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	27-10	1031	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
5588	M89	27-10	1033	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	27-10	1413	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	27-10	1416	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	27-10	1416	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	27-10	1417	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	27-10	1417	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5500	M89	27-10	1418	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4860	M89	27-10	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	27-10	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3642	M89	27-10	1431	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	27-10	1431	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	27-10	1433	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	27-10	1635	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	27-10	1636	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	27-10	1636	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	27-10	1637	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	27-10	1637	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	27-10	1638	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	27-10	1638	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
5500	M89	27-10	1640	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3330	M89	27-10	1914	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	27-10	1915	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	27-10	1915	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
10180	M89	28-10	1450	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	28-10	1450	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3330	M89	28-10	1615	Tue	V MW3D DE 2SLC. UN4U 367T D57N U65D 35NT TAD5 D45T (Cont'd)	CW	(JPL)
6840	M89	28-10	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3642	M89	28-10	1627	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	28-10	1627	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	28-10	1629	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	28-10	1629	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	28-10	1630	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	28-10	1630	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6666	M89	28-10	1632	Tue	i.p. FF NR 085/EX 0030 RMKS 1234 TO 2971 = =	CW	(JPL)
3330	M89	28-10	1934	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	28-10	1935	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	28-10	1935	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	28-10	1936	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	28-10	1936	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	28-10	1937	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	28-10	1937	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4131	M89	28-10	1941	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
10421	M89	29-10	0147	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	29-10	1100	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	M89	29-10	1555	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	29-10	1923	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
7602	M89	29-10	1925	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	29-10	1925	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	29-10	1927	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	29-10	1927	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	29-10	1929	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	29-10	1929	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	30-10	1617	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	30-10	1618	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	30-10	1618	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5657	M89	30-10	1619	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	30-10	1619	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6840	M89	30-10	1620	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3777	M89	30-10	1622	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	30-10	1622	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3330	M89	30-10	1846	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	30-10	1847	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	30-10	1847	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	30-10	1848	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	30-10	1848	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	30-10	1849	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	30-10	1849	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
10421	M89	31-10	0130	Fri	GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
7602	M89	31-10	0135	Fri	DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	31-10	0135	Fri	DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
10421	M89	31-10	0150	Fri	GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	31-10	0150	Fri	GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
6575	M89	31-10	0201	Fri	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
6840	M89	31-10	1320	Fri	VV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	31-10	1320	Fri	VV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3330	M89	31-10	1326	Fri	MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3820	M89	31-10	1328	Fri	GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	31-10	1328	Fri	GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
10192	M89	31-10	1332	Fri	i.p. AR K. R RPT 1W K. R RPT 1W 64DT K. R R RPT 54W K	CW	(JPL)
5801	M89	31-10	1340	Fri	DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
20047.7	MX	30-9	1035	Tue	Beacon "D" Sevastopol	CW	(EW)
5153.7	MX	1-10	2026	Wed	Beacon "D" Odessa/Sevastopol	CW	(AAI)
20047.9	MX	5-10	1119	Sun	Beacon "S" Severomorsk	CW	(MPJ)
16332	MX	5-10	1120	Sun	Beacon "C" Moscow	CW	(MPJ)
16331.7	MX	5-10	1121	Sun	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
13528	MX	5-10	1122	Sun	Beacon "C" Moscow	CW	(MPJ)
13527.9	MX	5-10	1123	Sun	Beacon "S" Severomorsk	CW	(MPJ)
8497.9	MX	6-10	1931	Mon	Beacon "L" St Petersburg	CW	(AB)
6917.5	MX	6-10	1931	Mon	Distorted beacon "L" St Petersburg	CW	(AB)
6917.5	MX	10-10	0759	Fri	Distorted beacon "L"	CW	(AB)
13528	MX	10-10	0937	Fri	Beacon "C" Moscow	CW	(AB)
20048	MX	10-10	0937	Fri	Beacon "C" Moscow	CW	(AB)
13528	MX	10-10	0937	Fri	Beacon "C" Moscow	CW	(AB)
8497.9	MX	10-10	0938	Fri	Beacon "L" St Petersburg	CW	(AB)
20047.9	MX	14-10	1134	Tue	Beacon "S" Severomorsk	CW	(LG2)
20047.7	MX	14-10	1134	Tue	Beacon "D" Sevastopol	CW	(LG2)
13528	MX	14-10	1806	Tue	Beacon "C" Moscow	CW	(LG2)
20048	MX	14-10	1825	Tue	Beacon "C" Moscow	CW	(LG2)
6917.5	MX	14-10	1852	Tue	Beacon "L" St Petersburg	CW	(LG2)
10871.9	MX	14-10	1854	Tue	Beacon "S" Severomorsk	CW	(LG2)
10871.7	MX	14-10	1854	Tue	Beacon "D" Sevastopol	CW	(LG2)
5153.9	MX	14-10	2148	Tue	Beacon "S" Severomorsk	CW	(LG2)
5154	MX	14-10	2148	Tue	Beacon "D" Sevastopol	CW	(LG2)
7091	MX	18-10	1938	Sat	Beacon "V" Khiva	CW	(AB)
6928	MX	20-10	2117	Mon	Beacon "V" Khiva	CW	(AB)
20048	MX	21-10	1206	Tue	Beacon "C" Moscow	CW	(AB)
20047.9	MX	21-10	1206	Tue	Beacon "S" Severomorsk	CW	(AB)
20047.7	MX	21-10	1206	Tue	Beacon "D" Sevastopol	CW	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
16332	MX	21-10	1207	Tue	Beacon "C" Moscow	CW	(AB)
16331.9	MX	21-10	1207	Tue	Beacon "S" Sevromorsk	CW	(AB)
16331.7	MX	21-10	1207	Tue	Beacon "D" Sevastopol	CW	(AB)
13528	MX	21-10	1208	Tue	Beacon "C" Moscow	CW	(AB)
13527.7	MX	21-10	1208	Tue	Beacon "D" Sevastopol	CW	(AB)
13527.9	MX	21-10	1208	Tue	Beacon "S" Sevromorsk	CW	(AB)
10871.7	MX	21-10	1209	Tue	Beacon "D" Sevastopol	CW	(AB)
10872	MX	21-10	1209	Tue	Beacon "C" Moscow	CW	(AB)
19647.85	PAK	30-9	1125	Tue	ISI (Karachi)? Five Letter groups. AL1LH DE MO2HD	Pactor 2 FEC	(EW)
6450	RMv	16-10	1614	Thu	Russian Mil duplex net: Plomba-56 wkg Avtor-25 followed by AT3004D traffic	USB	(AB)
10755	S06	1-10	0400	Wed	sends "801" for 29 minutes. Ends at 0429 UTC	USB	(Avare/JKC)
10755	S06	1-10	0430	Wed	sends "975" for 3h40mins. Msg starts at 0810 UTC	USB	(Avare/JKC)
10755	S06	1-10	0810	Wed	975 946 57 49039 27884 07709 ... 78542 39084 18100 946 57 00000	USB	(Avare)
5127	S06	2-10	1905	Thu	349 349 349 00000	USB	(JE-HOL/HFD)
4629	S06	4-10	1935	Sat	396 0	USB	(HFD)
6782	S06	4-10	2030	Sat	621 0	USB	(HFD)
5864	S06	4-10	2130	Sat	621 0	USB	(HFD)
5784	S06	6-10	1900	Mon	349 0	USB	(HFD)
5127	S06	9-10	1905	Thu	349 349 349 00000	AM	(HFD/GHn)
7356	S06	11-10	1605	Sat	194 780 36 05231	USB	(HFD)
4629	S06	11-10	1935	Sat	396 425 37 35480 13318 02696 ... 01345 14821 74335 425 37 00000	USB	(Avare)
5127	S06	13-10	1905	Mon	349 0	USB	(HFD)
4629	S06	15-10	1935	Wed	396 425 37 35480	USB	(HFD)
5784	S06	16-10	1900	Thu	349 0	USB	(HFD)
7357	S06	17-10	1605	Fri	194 780 36 05231	USB	(HFD)
7908	S06	17-10	2100	Fri	278 278 278 00000	USB	(Avare/Danix)
5787	S06	18-10	1930	Sat	396 425 37 35480	USB	(HFD)
5317	S06	18-10	2000	Sat	362 0	USB	(HFD)
4534	S06	18-10	2100	Sat	362 0	USB	(HFD)
15721	S06	20-10	0400	Mon	480 719 50 39025 30177 99318 ... 28834 54178 62843 719 50 00000	USB	(Avare)
5127	S06	23-10	1905	Thu	349 349 349 00000	USB	(AB)
20312	S06	24-10	0830	Fri	842 605 49 98063 22555 25725 ... 21749 00021 15648 605 49 00000	USB	(EW)
8062	S06	25-10	1600	Sat	194 180 36 ...	USB	(GHn)
4629	S06	29-10	1935	Wed	396 1938 break 1939 425 37 35486	USB	(HFD)
9081	S06s	2-10	0930	Thu	314 578 6 47370	USB	(HFD)
10514	S06s	2-10	0940	Thu	314	USB	(HFD)
9145	S06s	6-10	1200	Mon	831 467 5 38313 31376 41468 36928 30930 467 5 00000	AM	(AB)
11460	S06s	6-10	1210	Mon	831 467 5 38313 31376 41468 36928 30930 467 5 00000	AM	(AB)
11560	S06s	7-10	0740	Tue	427 985 6 39431 30153 47804 33173 39241 37924 985 6 00000	AM	(AB)
11635	S06s	7-10	0800	Tue	352 481 6 35097 87063 39561 39730 32824 39531 481 6 00000. Mixing with HM01	USB	(AB)
10420	S06s	7-10	0810	Tue	352 481 6 35097 87063 39561 39730 32824 39531 481 6 00000	USB	(AB)
6190	S06s	7-10	1100	Tue	754 839 6 15149	USB	(HFD)
7230	S06s	7-10	1110	Tue	754	USB	(HFD)
6464	S06s	7-10	1500	Tue	537 491 6 04868 44645 54958 80316 16556 44452 491 6 00000	USB	(AB)
7242	S06s	7-10	1510	Tue	537 491 6 04868 44645 54958 80316 16556 44452 491 6 00000	USB	(AB)
8630	S06s	8-10	0820	Wed	471	USB	(HFD)
9255	S06s	8-10	0830	Wed	471	USB	(HFD)
14213	S06s	9-10	1210	Thu	425 867 9 11171 64385 82707 06123 22536 88280 94116 53718 78927 867 9 00000. Should be on 14212 kHz	USB	(Avare)
9078	S06s	10-10	0600	Fri	934 260 5 81413 94073 83531 94063 63156 260 5 00000	AM	(AB)
10148	S06s	10-10	0610	Fri	934 260 5 81413 94073 83531 94063 63156 260 5 00000	AM	(AB)
7795	S06s	10-10	0700	Fri	196 473 5 50128 99477 83574 48874 94031 473 5 00000 followed by Windows sound	USB	(AB)
8695	S06s	10-10	0710	Fri	196 473 5 50128 99477 83574 48874 94031 473 5 00000 followed by Windows sound	USB	(AB)
6930	S06s	10-10	0800	Fri	278 460 5 88620 68069 61732 74537 57440 460 5 00000	USB	(AB)
6930	S06s	10-10	0800	Fri	278	USB	(HFD)
7755	S06s	10-10	0810	Fri	278 460 5 88620 68069 61732 74537 57440 460 5 00000	USB	(AB)
7755	S06s	10-10	0810	Fri	278	USB	(HFD)
12140	S06s	10-10	0930	Fri	516 438 7 96111 10544 98003 77890 26634 14690 14600 438 7 000000	AM	(AB)
13515	S06s	10-10	0940	Fri	516 438 7 96111 10544 98003 77890 26634 14690 14600 438 7 000000	AM	(AB)

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20050	S06s	12-10	0640	Sun	524 879 6 0079#	USB	(HFD)
5760	S06s	14-10	0700	Tue	374 289 5 47823 32418 45478 80976 32642 289 5 00000	USB	(AB)
6930	S06s	14-10	0715	Tue	374 289 5 47823 32418 45478 80976 32642 289 5 00000	USB	(AB)
7425	S06s	14-10	0730	Tue	427 985 6 39431 30153 47804 33173 39241 37924 985 6 00000	AM	(AB)
11560	S06s	14-10	0740	Tue	427 985 6 39431 30153 47804 33173 39241 37924 985 6 00000	AM	(AB)
11635	S06s	14-10	0800	Tue	352 481 6 35097 87063 39561 39730 32824 39531 481 6 00000	USB	(AB)
10420	S06s	14-10	0810	Tue	352 481 6 35097 87063 39561 39730 32824 39531 481 6 00000	USB	(AB)
9081	S06s	16-10	0930	Thu	314 967 5 82736 44679 89321 56340 33776 967 5 00000	USB	(AB)
10514	S06s	16-10	0940	Thu	314 967 5 82736 44679 89321 56340 33776 967 5 00000	USB	(AB)
9985	S06s	16-10	0950	Thu	635 982 7 21767 53672 11823 81022 36903 41412 55678 982 7 00000	AM	(AB)
11540	S06s	16-10	1000	Thu	635 982 7 21767 53672 11823 81022 36903 41412 55678 982 7 00000	AM	(AB)
7795	S06s	17-10	0700	Fri	196 807 5 84008 83450 42868 26318 36534 807 5 00000	USB	(AB/HFD)
8695	S06s	17-10	0710	Fri	196 807 5 84008 83450 42868 26318 36534 807 5 00000	USB	(AB/HFD)
6930	S06s	17-10	0800	Fri	278 436 5 39250 85527 32062 33761 98237 436 5 00000	USB	(AB)
7755	S06s	17-10	0810	Fri	278 436 5 39250 85527 32062 33761 98237 436 5 00000	USB	(AB)
9145	S06s	20-10	1200	Mon	831 206 5 78321 67542 89231 01672 35358 206 5 00000	AM	(AB)
11460	S06s	20-10	1210	Mon	831 206 5 78321 67542 89231 01672 35358 206 5 00000	AM	(AB)
5760	S06s	21-10	0700	Tue	374 926 5 52343 79628 42432 26075 56281 926 5 00000	USB	(AB)
6930	S06s	21-10	0715	Tue	374 926 5 52343 79628 42432 26075 56281 926 5 00000	USB	(AB)
11635	S06s	21-10	0800	Tue	352 480 6 30546 92538 32485 82247 42935 99463 480 6 00000	USB	(AB)
10420	S06s	21-10	0810	Tue	352 480 6 30546 92538 32485 82247 42935 99463 480 6 00000	USB	(AB)
6410	S06s	21-10	1000	Tue	893 264 5 47665 94092 48521 63823 92063 264 5 00000	USB	(AB)
7340	S06s	21-10	1010	Tue	893 264 5 47665 94092 48521 63823 92063 264 5 00000	USB	(AB)
7230	S06s	21-10	1110	Tue	754 902 6 34528 39182 93744 42747 45649 902 5 00000 ?????	USB	(AB)
8630	S06s	22-10	0820	Wed	471 908 5 46399 33972 30172 94302 50111 908 5 00000	USB	(AB)
9255	S06s	22-10	0830	Wed	471 908 5 46399 33972 30172 94302 50111 908 5 00000	USB	(AB)
13365	S06s	22-10	1000	Wed	729 518 6 93442 85927 85381 31402 46791 35467 518 6 00000	AM	(AB)
14505	S06s	22-10	1010	Wed	729 518 6 93442 85927 85381 31402 46791 35467 518 6 00000	AM	(AB)
7620	S06s	22-10	1230	Wed	967 218 5 84597 81254 90487 53953 36540 218 5 00000	USB	(AB)
8105	S06s	22-10	1240	Wed	967 218 5 84597 81254 90487 53953 36540 218 5 00000	USB	(AB)
12952	S06s	23-10	0900	Thu	167 842 5 19288 67532 00918 78231 10746 842 5 00000	AM	(AB)
13565	S06s	23-10	0910	Thu	167 842 5 19288 67532 00918 78231 10746 842 5 00000	AM	(AB)
9081	S06s	23-10	0930	Thu	314 967 5 82736 44679 89321 56340 33776 967 5 00000	USB	(AB)
10514	S06s	23-10	0940	Thu	314 967 5 82736 44679 89321 56340 33776 967 5 00000	USB	(AB)
9985	S06s	23-10	0950	Thu	635 982 7 21767 53672 11843 81022 36903 41412 55678 982 7 00000	USB	(AB)
11540	S06s	23-10	1000	Thu	635 982 7 21767 53672 11843 81022 36903 41412 55678 982 7 00000	USB	(AB)
14212	S06s	23-10	1210	Thu	425 903 6 34936 42366 44254 86014 39626 83189 903 6 00000	AM	(AB)
9078	S06s	24-10	0600	Fri	934 872 5 93442 85927 85381 31412 33542 872 5 00000	USB	(AB)
10148	S06s	24-10	0610	Fri	934 872 5 93442 85927 85381 31412 33542 872 5 00000	USB	(AB)
7795	S06s	24-10	0700	Fri	196 807 5 84004 83450 42868 26318 36534 807 5 00000	USB	(AB)
8695	S06s	24-10	0710	Fri	196 807 5 84004 83450 42868 26318 36534 807 5 00000	USB	(AB)
12140	S06s	24-10	0930	Fri	516 234 7 38629 49163 38232 31416 39337 30101 37353 234 7 00000	USB	(AB)
13615	S06s	24-10	0940	Fri	516 234 7 38629 49163 38232 31416 39337 30101 37353 234 7 00000	USB	(AB)
9220	S06s	27-10	0830	Mon	371 402 5 11827 36645 89891 65432 01649 402 5 00000	USB	(AB)
8270	S06s	27-10	0840	Mon	371 402 5 11827 36645 89891 65432 01649 402 5 00000	USB	(AB)
14580	S06s	27-10	0900	Mon	172 406 5 18273 46574 93827 10926 56748 406 5 00000	USB	(AB)
13165	S06s	27-10	0940	Mon	172 406 5 18273 46574 93827 10926 56748 406 5 00000	USB	(AB)
9145	S06s	27-10	1200	Mon	831 206 5 78321 67542 89231 01672 35358 206 5 00000	AM	(AB)
11460	S06s	27-10	1210	Mon	831 206 5 78321 67542 89231 01672 35358 206 5 00000	AM	(AB)
5760	S06s	28-10	0700	Tue	374 926 5 52343 79628 42432 56075 56281 926 5 00000	USB	(AB)
6930	S06s	28-10	0715	Tue	374 926 5 52343 79628 42432 56075 56281 926 5 00000	USB	(AB)
7425	S06s	28-10	0730	Tue	427 805 6 94302 39250 85837 32062 33461 98237 805 6 00000	AM	(AB)
11560	S06s	28-10	0740	Tue	427 805 6 94302 39250 85837 32062 33461 98237 805 6 00000	AM	(AB)
11635	S06s	28-10	0800	Tue	352 480 6 30546 92538 32485 82247 42935 99463 480 6 00000	USB	(AB)
10420	S06s	28-10	0810	Tue	352 480 6 30546 92538 32485 82247 42935 99463 480 6 00000	USB	(AB)
6464	S06s	28-10	1500	Tue	537 490 6 31542 38747 33534 36213 37580 39209 490 6 00000	USB	(AB)
7242	S06s	28-10	1510	Tue	537 490 6 31542 38747 33534 36213 37580 39209 490 6 00000	USB	(AB)
14505	S06s	29-10	1010	Wed	729 729 729 00000	USB	(AB)
7620	S06s	29-10	1230	Wed	967 967 967 00000	USB	(AB)
8105	S06s	29-10	1240	Wed	967 967 967 00000	USB	(AB)
4016	S11a	1-10	1955	Wed	370/00	USB	(AB)
4016	S11a	3-10	1955	Fri	370/00	USB	(AB)

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4016	S11a	8-10	1955	Wed	370/00	USB	(AB)
7317	S11a	10-10	0915	Fri	484/00	USB	(AB)
9960	S11a	10-10	1024	Fri	i.p.	USB	(AB)
4016	S11a	10-10	1956	Fri	370/00	USB	(KK2)
4016	S11a	17-10	1955	Fri	370/00	USB	(GHn)
9960	S11a	21-10	1020	Tue	426/00	USB	(AB)
5815	S11a	22-10	1020	Wed	221/00	USB	(AB)
7317	S11a	24-10	0915	Fri	484/00	USB	(AB)
9960	S11a	24-10	1020	Fri	426/00	USB	(AB)
18039	S25	29-10	1050	Wed	049 61922 049 68382 Switches to 14405 kHz at 1058z.	USB	(Avare)
14405	S25	29-10	1058	Wed	049 72742 049 65382 00000 00000 Comes from 18039 kHz	USB	(Avare/AB)
4625	S28	1-10	1307	Wed	MDZhB 94 041 LEVICHAR 31 80 92 40	USB	(Arg)
4625	S28	2-10	1214	Thu	MDZhB 01 842 ZIZIFUS 77 24 82 09	USB	(Arg)
4625	S28	2-10	1409	Thu	MDZhB 24 612 METROKIN 84 23 29 62	USB	(DJPr)
4625	S28	5-10	1245	Sun	Unreadable	USB	(Arg/Avare)
4625	S28	5-10	1314	Sun	MDZhB 27 262 VEChEYa 90 80 76 97	USB	(Arg)
4625	S28	6-10	1228	Mon	MDZhB 39 870 VERShADEC 26 82 06 66	USB	(Arg)
4625	S28	6-10	1307	Mon	MDZhB 03 996 SAMOSMAZKA 80 73 47 47	USB	(Arg)
4625	S28	8-10	1342	Wed	MDZhB 21 995 LIVADA 11 18 11 93	USB	(DJPr)
4625	S28	9-10	1223	Thu	MDZhB 46 519 BAZOAR 18 33 19 97	USB	(DJPr)
4625	S28	19-10	0906	Sun	MDZhB 19 449 GIPERYaDRO 19 22 74 30	USB	(DJPr)
4625	S28	20-10	1647	Mon	MDZhB 01 877 MALOVYeTRIYe 66 44 25 72 SINHROTRON 90 81 94 28 Priyom	USB	(Avare)
4625	S28	23-10	1332	Thu	MDZhB 48 378 MARTIROLOG 01 28 99 41	USB	(DJPr)
4625	S28	23-10	1337	Thu	MDZhB 24 040 UDAR 99 81 21 43	USB	(DJPr)
4625	S28	23-10	1443	Thu	MDZhB 61 179 OBZhIMOChNYJ 68 09 44 02	USB	(DJPr)
4625	S28	23-10	1452	Thu	MDZhB 36 346 NIZKIJ 87 23 43 38	USB	(DJPr)
4625	S28	23-10	1454	Thu	MDZhB 91 816 EVANGELIST 04 95 59 36	USB	(DJPr)
4625	S28	23-10	1500	Thu	MDZhB 48 711 ChERPAL'ShchIK 22 57 20 82	USB	(DJPr)
4625	S28	23-10	1626	Thu	MDZhB 07 255 SANDALIN 65 60 95 31	USB	(DJPr)
4625	S28	24-10	1212	Fri	MDZhB 43 418 GIRLO 96 04 62 35	USB	(DJPr)
4625	S28	27-10	1354	Mon	MDZhB 35 554 MALOGEN 46 35 31 97	USB	(DJPr)
4625	S28	27-10	1433	Mon	MDZhB 80 234 ChIANURI 87 00 05 56	USB	(DJPr)
5448	S30	2-10	0629	Thu	8S1Shch 65 212 KELERIYa 41 11 80 93	USB	(DJPr)
5448	S30	2-10	0650	Thu	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB	(DJPr)
3756	S30	3-10	1601	Fri	79AJ P'HSch 6EHB CP3' ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG	USB	(DJPr)
5448	S30	4-10	1359	Sat	8S1Shch 79 076 DUHOVOJ 61 33 27 58	USB	(DJPr)
5448	S30	6-10	1227	Mon	8S1Shch 37 051 OREZAN 34 80 90 57	USB	(DJPr)
3756	S30	8-10	1739	Wed	DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchhJ TZLM FY5E F61N	USB	(DJPr)
3756	S30	11-10	0234	Sat	LI27 INNC ShchGJP 8CSchhJ TZLM FY5E F61N Z7CN MUDR 7VNShch	USB	(DJPr)
3756	S30	12-10	1700	Sun	P'HSch 6EHB CP3' ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG Z'1B	USB	(DJPr)
5448	S30	14-10	1308	Tue	HCLF 61HZh ZBIL L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR	USB	(DJPr)
3756	S30	14-10	1703	Tue	5JShch 27Shch' N1DU 53OB 78MV 12CI 79AJ P'HSch 6EHB CP3'	USB	(DJPr)
3756	S30	16-10	1727	Thu	L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU	USB	(DJPr)
3756	S30	18-10	1553	Sat	PMV5 L'GJ TshchSchchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE	USB	(DJPr)
5448	S30	19-10	1352	Sun	Z'1B CI9V ZhSK4 5FSShch DEAY DMC3 49FT C2ZA LI27 INNC	USB	(DJPr)
3746	S30	20-10	0022	Mon	Pip on backup freq.	USB	(DJPr)
5448	S30	20-10	1301	Mon	VHT3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI 4RVZ 3VS'	USB	(DJPr)
5448	S30	20-10	1344	Mon	53OB TSchchSchchS 53 634 07 647 DIRBORNEC 55 52 36 58	USB	(DJPr)
5448	S30	22-10	1357	Wed	8S1Shch 08 298 GRANATOID 98 85 41 75 NALIVCHATYJ 75 30 56 96	USB	(DJPr)
3756	S30	23-10	0324	Thu	CJ5C 42BV 81BR M7KS PMV5 L'GJ TshchSchchS VKY1 HCLF 61HZh	USB	(DJPr)
5448	S30	23-10	1300	Thu	8S1Shch 89 937 KARVOZVIN 05 77 34 39	USB	(DJPr)
5448	S30	23-10	1330	Thu	8S1Shch 52 614 NEKROZ 91 95 70 10	USB	(DJPr)
5448	S30	23-10	1443	Thu	8S1Shch 45 600 SEKKO 00 43 16 95	USB	(DJPr)
5448	S30	23-10	1453	Thu	8S1Shch 22 479 KOKVIMBIT 16 62 32 29	USB	(DJPr)
3756	S30	23-10	1627	Thu	8S1Shch 81 727 ENOL 01 67 17 52	USB	(DJPr)
3756	S30	25-10	1458	Sat	8S1Shch 79 189 TOKMACH 88 49 36 89 HABUR 00 64 58 58	USB	(DJPr)
3756	S30	26-10	1835	Sun	S7ZhG Z'1B CI9V ZhSK4 5FSShch DEAY DMC3 49FT C2ZA LI27	USB	(DJPr)
5448	S30	27-10	0500	Mon	YMA5 VHT3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI 4RVZ	USB	(DJPr)
5448	S30	27-10	1354	Mon	8S1Shch 13 695 ARYS 40 13 11 36	USB	(DJPr)
3828	S32	1-10	1859	Wed	STOROZh-62 YaHTA-94 KURGAN-40 RUZH'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
5473	S32	2-10	1301	Thu	ALFA-45 96 418 BETOK 69 48 68 36	USB	(DJPr)

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5473	S32	2-10	1307	Thu	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29 STOROZh-62 YaHTA-94	USB	(DJPr)
5473	S32	3-10	1205	Fri	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
3828	S32	4-10	1403	Sat	ALFA-45 25 629 DIKARI 26 10 83 11	USB	(DJPr)
5473	S32	6-10	1232	Mon	ALFA-45 64 896 KARANFIL 06 33 06 93	USB	(DJPr)
5473	S32	6-10	1311	Mon	ALFA-45 09 253 RASSTAVKA 78 81 65 87	USB	(DJPr)
5473	S32	8-10	1206	Wed	ALFA-45 33 020 KALIL'ShchIK 88 34 68 36	USB	(DJPr)
5473	S32	8-10	1741	Wed	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)
5473	S32	9-10	1144	Thu	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
3828	S32	9-10	1530	Thu	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	10-10	0709	Fri	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5473	S32	13-10	0728	Mon	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	13-10	1205	Mon	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5473	S32	14-10	1050	Tue	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
5473	S32	14-10	1353	Tue	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
3828	S32	14-10	1706	Tue	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	15-10	1146	Wed	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)
3828	S32	15-10	1446	Wed	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	16-10	1229	Thu	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	16-10	1533	Thu	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	16-10	1901	Thu	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	18-10	1740	Sat	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	19-10	1534	Sun	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	20-10	1152	Mon	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	20-10	1152	Mon	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	21-10	1910	Tue	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	21-10	1910	Tue	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
5473	S32	23-10	1309	Thu	ALFA-45 84 484 MAKAL'ShshIK 43 50 41 73	USB	(DJPr)
5473	S32	23-10	1337	Thu	ALFA-45 97 112 PAGLINOK 08 87 77 78	USB	(DJPr)
3828	S32	23-10	1408	Thu	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29 NEVKA-26	USB	(DJPr)
3828	S32	23-10	1449	Thu	ALFA-45 70 155 DICIAN 61 16 68 71	USB	(DJPr)
3828	S32	23-10	1458	Thu	ALFA-45 35 201 UPRAVDEL 27 60 26 56	USB	(DJPr)
3828	S32	23-10	1518	Thu	ALFA-45 23 934 ALAJ 81 42 90 34	USB	(DJPr)
3828	S32	23-10	1631	Thu	ALFA-45 21 077 MASIMA 94 00 53 65	USB	(DJPr)
5473	S32	24-10	1216	Fri	ALFA-45 88 026 KYuRIT 47 78 47 77	USB	(DJPr)
3828	S32	25-10	1518	Sat	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29 STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)
3828	S32	26-10	1619	Sun	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	26-10	2004	Sun	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)
5473	S32	27-10	1400	Mon	ALFA-45 25 634 TEBERChNIK 85 78 78 34	USB	(DJPr)
5473	S32	27-10	1434	Mon	ALFA-45 82 549 TARITAU 49 72 14 05	USB	(DJPr)
3828	S32	27-10	1619	Mon	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3580	UM01	15-10	0943	Wed	CQ P 4	CW	(JPL-Sib)
3580	UM01	16-10	2222	Thu	CQ P 1	CW	(JPL-Sib)
3850	UM01	17-10	0230	Fri	CQ P 0	CW	(JPL-Sib)
3850	UM01	17-10	1045	Fri	CQ M 0	CW	(JPL-Sib)
3850	UM01	17-10	1131	Fri	CQ M 1	CW	(JPL-Sib)
3850	UM01	17-10	1344	Fri	CQ M 1	CW	(JPL-Sib)
3850	UM01	17-10	1425	Fri	CQ M 1	CW	(JPL-Sib)
3850	UM01	17-10	1900	Fri	CQ M 3	CW	(JPL-Sib)
3850	UM01	17-10	1913	Fri	CQ M 4	CW	(JPL-Sib)
3580	UM01	18-10	0810	Sat	CQ P 2	CW	(JPL-Sib)

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3580	UM01	18-10	0823	Sat	CQ P 1	CW	(JPL-Sib)
3580	UM01	31-10	0138	Fri	CQ P 0	CW	(JPL-Sib)
3207	UM10	17-10	1348	Fri	Unid 10-mins net: KTR4 //3860 kHz	CW	(JPL-Sib)
3860	UM10	17-10	1348	Fri	Unid 10-mins net: KTR4 //3207 kHz	CW	(JPL-Sib)
6450	USB	15-10	1631	Wed	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	USB	16-10	1606	Thu	Armenian Air Defense. Bearing/range reports mixing with Russian mil stations	USB	(AB)
6450	USB	17-10	1614	Fri	Armenian Air Defense. Bearing/range reports	USB	(AB)
7554	V02a	2-10	2100	Thu	Voice grps in LSB. Shoud be M08a. Voice and CW on at same time	LSB	(DSch)
18074	V07	5-10	0100	Sun	883 883 883 1 752 87 81415 97771 48900 ... 70155 24471 72582 000 000	USB	(Dan)
15874	V07	5-10	0120	Sun	883 883 883 1 752 87 81415 97771 48900 ... 70155 24471 72582 000 000	USB	(Dan)
14374	V07	5-10	0140	Sun	883 883 883 1 752 87 81415 97771 48900 ... 70155 24471 72582 000 000	USB	(Dan)
18074	V07	19-10	0100	Sun	883 883 883 000	USB	(Dan)
15874	V07	19-10	0120	Sun	883 883 883 000	USB	(Dan)
18074	V07	26-10	0100	Sun	883 883 883 1 243 67 49003 80554 74880 ... 88974 45737 01493 000 000	USB	(Dan)
15874	V07	26-10	0120	Sun	883 883 883 1 243 67 49003 80554 74880 ... 88974 45737 01493 000 000	USB	(Dan)
14374	V07	26-10	0140	Sun	883 883 883 1 243 67 49003 80554 74880 ... 88974 45737 01493 000 000	USB	(Dan)
7502	V13	2-10	1200	Thu	Ch 4F	USB	(HFD)
7502	V13	8-10	1200	Wed	Ch 4F	USB	(HFD)
7502	V13	8-10	1300	Wed	Ch 4F	USB	(HFD)
14631	X06	1-10	0926	Wed	Mazielka. Sequence: 362154	USB	(PUK)
18346	X06	1-10	0942	Wed	Mazielka. Sequence: 214356	USB	(PUK)
17468	X06	2-10	0647	Thu	Mazielka. Sequence: 436512	USB	(PUK)
19405	X06	2-10	1340	Thu	Mazielka. Sequence: 352416	USB	(PUK)
14595	X06	5-10	1330	Sun	Mazielka. Sequence: 452163	USB	(Danix)
10161	X06	6-10	0646	Mon	Mazielka. Sequence: 165324	USB	(PUK)
18750	X06	6-10	0700	Mon	Mazielka. Sequence: 641523	USB	(PUK)
12178	X06	7-10	1531	Tue	Mazielka. Sequence: 645321	USB	(Danix)
20813	X06	8-10	1042	Wed	Mazielka. Sequence: 216354	USB	(PUK)
14650	X06	8-10	1054	Wed	Mazielka. Sequence: 215346	USB	(PUK)
17470	X06	8-10	1055	Wed	Mazielka. Sequence: 216354	USB	(PUK)
13985	X06	8-10	1125	Wed	Mazielka. Sequence: 134265	USB	(PUK)
18660	X06	8-10	1129	Wed	Mazielka. Sequence: 621543	USB	(PUK)
12126	X06	9-10	0818	Thu	Mazielka. Sequence: 521634	USB	(PUK)
10653	X06	10-10	0728	Fri	Mazielka. Sequence: 356412	USB	(PUK)
19611	X06	10-10	1003	Fri	Mazielka. Sequence: 256134	USB	(PUK)
13517	X06	13-10	0935	Mon	Mazielka. Sequence: 463125	USB	(PUK)
15656	X06	13-10	1302	Mon	Mazielka. Sequence: 364152	USB	(PUK)
10755	X06	14-10	0742	Tue	Mazielka. Sequence: 154263	USB	(Danix/Avare)
13420	X06	14-10	0755	Tue	Mazielka. Sequence: 534216	USB	(PUK)
11025	X06	14-10	1122	Tue	Mazielka. Sequence: 612534	USB	(PUK)
13510	X06	14-10	1128	Tue	Mazielka. Sequence: 612534	USB	(PUK)
13465	X06	15-10	0909	Wed	Mazielka. Sequence: 362154	USB	(PUK)
13465	X06	15-10	0916	Wed	Mazielka. Sequence: 362154	USB	(PUK)
17468	X06	16-10	0641	Thu	Mazielka. Sequence: 436512	USB	(PUK)
18575	X06	16-10	1229	Thu	Mazielka. Sequence: 352416	USB	(PUK)
18575	X06	16-10	1229	Thu	Mazielka. Sequence: 352416	USB	(PUK)
18750	X06	20-10	0743	Mon	Mazielka. Sequence: 641523	USB	(PUK)
11438	X06	20-10	1538	Mon	Mazielka. Sequence: 532614	USB	(Danix)
11438	X06	20-10	1553	Mon	Mazielka. Sequence: 532614	USB	(Danix)
15687	X06	21-10	0828	Tue	Mazielka. Sequence: 154263	USB	(PUK)
16116	X06	22-10	0858	Wed	Mazielka. Sequence: 134265	USB	(PUK)
9288	X06	24-10	0618	Fri	Mazielka. Sequence: 356412	USB	(PUK)
15828	X06	24-10	1011	Fri	Mazielka. Sequence: 256134	USB	(PUK)
17523	X06	28-10	0821	Tue	Mazielka. Sequence: 542136	USB	(JkC)
14863	X06	28-10	1005	Tue	Mazielka. Sequence: 612534	USB	(PUK)
16320	X06	29-10	1303	Wed	Mazielka. Sequence: 241563	USB	(AB)
12176	X06	29-10	1602	Wed	Mazielka. Sequence: 1--6--	USB	(Danix)
9076	X06	31-10	1701	Fri	Mazielka. Sequence: 215346	USB	(PUK)
13376	X06b	19-10	1602	Sun	Mazielka. Sequence: 1-----	USB	(Danix)
10868	XPA	1-10	0600	Wed	813 813 813 000 01021 00001 00000 10140	MFSK-20/10Bd	(AB)
12168	XPA	1-10	0620	Wed	813 813 813 000 01021 00001 00000 10140	MFSK-20/10Bd	(AB)

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13368	XPA	1-10	0640	Wed	813 813 813 000 01021 00001 00000 10140	MFSK-20/10Bd	(AB)
9362	XPA	2-10	1900	Thu	304 1 04420 00171 22179 16145 29114 ... 25685 90216 72044 52905 50612	MFSK-20/10Bd	(MPJ/HFD/JE-HOL)
8062	XPA	2-10	1920	Thu	304 1 04420 00171 22179 16145 29114 ... 25685 90216 72044 52905 50612	MFSK-20/10Bd	(JE-HOL/HFD)
7462	XPA	2-10	1940	Thu	304 1 04420 00171 22179 16145 29114 ... 25685 90216 72044 52905 50612	MFSK-20/10Bd	(HFD)
10868	XPA	4-10	0600	Sat	msg	MFSK-20/10Bd	(HFD)
12168	XPA	4-10	0620	Sat	msg	MFSK-20/10Bd	(HFD)
13368	XPA	4-10	0640	Sat	813 813 813 000 01021 00001 00000 10140	MFSK-20/10Bd	(PPA/HFD)
14828	XPA	4-10	1442	Sat	i.p.	MFSK-20/10Bd	(AB)
8062	XPA	7-10	1920	Tue	304 344 4423 00000 000000 0040 (corrupt)	MFSK-20/10Bd	(MPJ)
8062	XPA	9-10	1920	Thu	304 304 304 000. 06656 00001 00000 10140	MFSK-20/10Bd	(MPJ)
10868	XPA	11-10	0600	Sat	813 813 813 1 03447 00123 79019 ... 48292 89583 61024	MFSK-20/10Bd	(AB)
12168	XPA	11-10	0620	Sat	813 813 813 1 03447 00123 79019 ... 48292 89583 61024	MFSK-20/10Bd	(AB)
13368	XPA	11-10	0640	Sat	813 813 813 1 03447 00123 79019 ... 48292 89583 61024	MFSK-20/10Bd	(AB)
8062	XPA	14-10	1920	Tue	304 1 08784 00277 13785 19690 58743 ... 29684 56766 46052 83213 60177	MFSK-20/10Bd	(MPJ)
10868	XPA	15-10	0600	Wed	813 813 813 000 03588 00001 00000 10140	MFSK-20/10Bd	(AB)
12168	XPA	15-10	0620	Wed	813 813 813 000 03588 00001 00000 10140	MFSK-20/10Bd	(AB)
13368	XPA	15-10	0640	Wed	813 813 813 000 03588 00001 00000 10140	MFSK-20/10Bd	(AB)
10868	XPA	18-10	0600	Sat	813 813 813 000 07541 00001 00000 10140	MFSK-20/10Bd	(AB)
12168	XPA	18-10	0620	Sat	813 813 813 000 07541 00001 00000 10140	MFSK-20/10Bd	(AB)
13368	XPA	18-10	0640	Sat	813 813 813 000 07541 00001 00000 10140	MFSK-20/10Bd	(AB)
10868	XPA	22-10	0600	Wed	813 813 813 000 05125 00001 00000 10140	MFSK-20/10Bd	(AB)
12168	XPA	22-10	0620	Wed	813 813 813 000 05125 00001 00000 10140	MFSK-20/10Bd	(AB)
13368	XPA	22-10	0640	Wed	813 813 813 000 05125 00001 00000 10140	MFSK-20/10Bd	(AB)
8062	XPA	23-10	1920	Thu	304 1 00543 00239 98973 ... 91164 96335 45443	MFSK-20/10Bd	(MPJ)
10868	XPA	25-10	0600	Sat	813 813 813 000 04611 00001 00000 10140	MFSK-20/10Bd	(AB)
12168	XPA	25-10	0620	Sat	813 813 813 000 04611 00001 00000 10140	MFSK-20/10Bd	(AB)
13368	XPA	25-10	0640	Sat	813 813 813 000 04611 00001 00000 10140	MFSK-20/10Bd	(AB)
9362	XPA	28-10	1900	Tue	304 304 304 000 05111 00001 00000 10140	MFSK-20/10Bd	(AB)
8062	XPA	28-10	1920	Tue	304 304 304 000 05111 00001 00000 10140	MFSK-20/10Bd	(AB)
7462	XPA	28-10	1940	Tue	304 304 304 000 05111 00001 00000 10140	MFSK-20/10Bd	(AB)
8062	XPA	30-10	1920	Thu	01451 00001 00000 10140	MFSK-20/10Bd	(MPJ)
17462	XPA2	3-10	1400	Fri	08283 00077 67003 68248 882504 60046 ... 56573 43839 10424 24330 00133	MFSK-16/20Bd	(MPJ)
16114	XPA2	3-10	1420	Fri	08283 00077 67003 68248 882504 60046 ... 56573 43839 10424 24330 00133	MFSK-16/20Bd	(MPJ)
14828	XPA2	3-10	1440	Fri	08283 00077 67003 68248 882504 60046 ... 56573 43839 10424 24330 00133	MFSK-16/20Bd	(MPJ)
14947	XPA2	3-10	1520	Fri	05170 00001 00000 10140	MFSK-16/20Bd	(MPJ)
14447	XPA2	3-10	1540	Fri	05170 00001 00000 10140	MFSK-16/20Bd	(MPJ)
16114	XPA2	4-10	1420	Sat	08283 00077 67003 68248 82504 ...	MFSK-16/20Bd	(MPJ)
14828	XPA2	4-10	1440	Sat	08283 00077 67003 68248 82504 ...	MFSK-16/20Bd	(MPJ)
16147	XPA2	5-10	1500	Sun	01082 00001 00000 10140	MFSK-16/20Bd	(MPJ)
14538	XPA2	5-10	1520	Sun	03989 00001 00000 10140	MFSK-16/20Bd	(MPJ)
13538	XPA2	5-10	1540	Sun	03989 00001 00000 10140	MFSK-16/20Bd	(MPJ)
16338	XPA2	7-10	1500	Tue	06613 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
14538	XPA2	7-10	1520	Tue	06613 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
13538	XPA2	7-10	1540	Tue	06613 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
20841	XPA2	10-10	0700	Fri	00137 00125 49104 ... 80833 65059 02207	MFSK-16/20Bd	(AB)
18741	XPA2	10-10	0720	Fri	00137 00125 49104 ... 80833 65059 02207	MFSK-16/20Bd	(AB)
17441	XPA2	10-10	0740	Fri	00137 00125 49104 ... 80833 65059 02207	MFSK-16/20Bd	(AB)
17462	XPA2	10-10	1400	Fri	04059 00000100000 10040	MFSK-16/20Bd	(AB/MPJ)
16114	XPA2	10-10	1420	Fri	04059 00000100000 10040	MFSK-16/20Bd	(AB/MPJ)
14828	XPA2	10-10	1440	Fri	04059 00000100000 10040	MFSK-16/20Bd	(AB/MPJ)
16147	XPA2	10-10	1500	Fri	07582 00213 06390 ... 87234 94059 23551	MFSK-16/20Bd	(AB/MPJ)
14947	XPA2	10-10	1520	Fri	07582 00213 06390 ... 87234 94059 23551	MFSK-16/20Bd	(AB/MPJ)
14447	XPA2	10-10	1540	Fri	07582 00213 06390 ... 87234 94059 23551	MFSK-16/20Bd	(AB/MPJ)
17462	XPA2	11-10	1400	Sat	msg	MFSK-16/20Bd	(HFD)
16114	XPA2	11-10	1420	Sat	01806 00001 00000 10140	MFSK-16/20Bds	(MPJ)
16114	XPA2	11-10	1420	Sat	msg	MFSK-16/20Bd	(HFD)

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14828	XPA2	11-10	1440	Sat	01806 00001 00000 10140	MFSK-16/20Bds	(MPJ)
14828	XPA2	11-10	1440	Sat	msg	MFSK-16/20Bd	(HFD)
16147	XPA2	12-10	1500	Sun	05283 1 0 0014 Corrupt	MFSK-16/20Bd	(MPJ)
14538	XPA2	12-10	1520	Sun	02482 00121 48158 45540 84134 ... 38945 27873 11150 20102 14023	MFSK-16/20Bd	(MPJ)
13538	XPA2	12-10	1540	Sun	02482 00121 48158 45540 84134 ... 38945 27873 11150 20102 14023	MFSK-16/20Bd	(MPJ)
14447	XPA2	12-10	1540	Sun	05284 00002 00000 20240	MFSK-16/20Bd	(MPJ)
20841	XPA2	14-10	0700	Tue	06835 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
18741	XPA2	14-10	0720	Tue	06835 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
17441	XPA2	14-10	0740	Tue	06835 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
16338	XPA2	14-10	1500	Tue	02482 00121 48158 45540 84134 ... 38945 27873 11150 20102 14023	MFSK-16/20Bd	(MPJ/HFD)
14538	XPA2	14-10	1520	Tue	02482 00121 48158 45540 84134 ... 38945 27873 11150 20102 14023	MFSK-16/20Bd	(MPJ/HFD)
13538	XPA2	14-10	1540	Tue	msg	MFSK-16/20Bd	(HFD)
20841	XPA2	17-10	0700	Fri	05912 00001 00000 10140	MFSK-16/20Bd	(AB)
18741	XPA2	17-10	0720	Fri	05912 00001 00000 10140	MFSK-16/20Bd	(AB)
17441	XPA2	17-10	0740	Fri	05912 00001 00000 10140	MFSK-16/20Bd	(AB)
17462	XPA2	17-10	1400	Fri	08150 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
16114	XPA2	17-10	1420	Fri	08150 00001 00000 10140	MFSK-16/20Bd	(AB)
14828	XPA2	17-10	1440	Fri	08150 00001 00000 10140	MFSK-16/20Bd	(AB)
16147	XPA2	17-10	1500	Fri	08826 00191 01933 ... 88020 31618 62474	MFSK-16/20Bd	(AB/HFD)
14947	XPA2	17-10	1520	Fri	08826 00191 01933 ... 88020 31618 62474	MFSK-16/20Bd	(AB/MPJ/HFD)
14447	XPA2	17-10	1540	Fri	msg	MFSK-16/20Bd	(HFD)
17462	XPA2	18-10	1400	Sat	07935 00001 00000 10140	MFSK-16/20Bds	(MPJ)
16114	XPA2	18-10	1420	Sat	07935 00001 00000 10140	MFSK-16/20Bds	(MPJ)
16147	XPA2	19-10	1500	Sun	07376 00001 00000 10140	MFSK-16/20Bds	(MPJ)
14947	XPA2	19-10	1520	Sun	07376 00001 00000 10140	MFSK-16/20Bds	(MPJ)
14538	XPA2	19-10	1520	Sun	03536 00097 13707 63167 98732 ... 76255 65110 31738 38884 17016	MFSK-16/20Bds	(MPJ)
13538	XPA2	19-10	1540	Sun	03536 00097 13707 63167 98732 ... 76255 65110 31738 38884 17016	MFSK-16/20Bds	(MPJ)
14447	XPA2	19-10	1540	Sun	07376 00001 00000 10140	MFSK-16/20Bds	(MPJ)
20841	XPA2	21-10	0700	Tue	00971 00083 85994 ... 78769 82345 76216	MFSK-16/20Bd	(AB)
18741	XPA2	21-10	0720	Tue	00971 00083 85994 ... 78769 82345 76216	MFSK-16/20Bd	(AB)
17441	XPA2	21-10	0740	Tue	00971 00083 85994 ... 78769 82345 76216	MFSK-16/20Bd	(AB)
14538	XPA2	21-10	1520	Tue	03536 00097 13707 63167 98732 ... 76256 65120 31738 38994 17016	MFSK-16/20Bd	(MPJ)
13538	XPA2	21-10	1540	Tue	03536 00097 13707 63167 98732 ... 76256 65120 31738 38994 17016	MFSK-16/20Bd	(MPJ)
20461	XPA2	23-10	0721	Thu	i.p.	MFSK-16/20Bd	(EW)
20841	XPA2	24-10	0700	Fri	05912 00001 00000 10140	MFSK-16/20Bd	(AB)
18741	XPA2	24-10	0720	Fri	05912 00001 00000 10140	MFSK-16/20Bd	(AB)
17441	XPA2	24-10	0740	Fri	05912 00001 00000 10140	MFSK-16/20Bd	(AB)
17462	XPA2	24-10	1400	Fri	05603 00119 62870 ... 91151 13549 66474	MFSK-16/20Bd	(AB/MPJ)
16114	XPA2	24-10	1420	Fri	05603 00119 62870 ... 91151 13549 66474	MFSK-16/20Bd	(AB/MPJ)
14828	XPA2	24-10	1440	Fri	05603 00119 62870 ... 91151 13549 66474	MFSK-16/20Bd	(AB/MPJ)
16147	XPA2	24-10	1500	Fri	00739 00235 56914 69563 43071 ... 40990 64521 33532 59578 21763	MFSK-16/20Bd	(AB)
14947	XPA2	24-10	1520	Fri	00739 00235 56914 69563 43071 ... 40990 64521 33532 59578 21763	MFSK-16/20Bd	(AB)
14447	XPA2	24-10	1540	Fri	00739 00235 56914 69563 43071 ... 40990 64521 33532 59578 21763	MFSK-16/20Bd	(AB)
21918	XPA2	25-10	1300	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
20881	XPA2	25-10	1310	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
19921	XPA2	25-10	1330	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
20461	XPA2	25-10	1330	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
19117	XPA2	25-10	1340	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
18264	XPA2	25-10	1350	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
17462	XPA2	25-10	1400	Sat	05603 00119 62870 72549 71062 ... 52186 54921 91151 13549 66474	MFSK-16/20Bds	(MPJ)
21859	XPA2	25-10	1500	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
20726	XPA2	25-10	1510	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
20027	XPA2	25-10	1520	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
19047	XPA2	25-10	1530	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
18056	XPA2	25-10	1540	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
15864	XPA2	25-10	1550	Sat	Polytone station	MFSK-16/20Bd	(#WUN)
19922	XPA2	26-10	0831	Sun	09597 00134 58019 ...	MFSK-16/20Bd	(PPA)
19118	XPA2	26-10	0842	Sun	09597 00134 58019 ...	MFSK-16/20Bd	(PPA)
18265	XPA2	26-10	0852	Sun	09597 00134 58019 ...	MFSK-16/20Bd	(PPA)
16338	XPA2	26-10	1500	Sun	08154 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
16147	XPA2	26-10	1500	Sun	00739 00235 56914 ... 33532 59578 21763	MFSK-16/20Bd	(AB/MPJ)
14538	XPA2	26-10	1520	Sun	08154 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Contributor
14947	XPA2	26-10	1520	Sun	00739 00235 56914 ... 33532 59578 21763	MFSK-16/20Bd	(AB/MPJ)
13528	XPA2	26-10	1540	Sun	08154 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
14447	XPA2	26-10	1540	Sun	00739 00235 56914 ... 33532 59578 21763	MFSK-16/20Bd	(AB/MPJ)
20841	XPA2	28-10	0700	Tue	00159 00117 27332 ... 29574 74449 27040	MFSK-16/20Bd	(AB)
18741	XPA2	28-10	0720	Tue	00159 00117 27332 ... 29574 74449 27040	MFSK-16/20Bd	(AB)
17441	XPA2	28-10	0740	Tue	00159 00117 27332 ... 29574 74449 27040	MFSK-16/20Bd	(AB)
19117	XPA2	28-10	1340	Tue	03934 00110 62903 ... 83400 05423 00140	MFSK-16/20Bd	(AB)
18264	XPA2	28-10	1350	Tue	03934 00110 62903 ... 83400 05423 00140	MFSK-16/20Bd	(AB)
16338	XPA2	28-10	1500	Tue	09304 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
20027	XPA2	28-10	1520	Tue	03934 00110 62903 ... 83400 05423 00140	MFSK-16/20Bd	(AB)
14538	XPA2	28-10	1520	Tue	09304 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
19047	XPA2	28-10	1530	Tue	03934 00110 62903 ... 83400 05423 00140	MFSK-16/20Bd	(AB)
13538	XPA2	28-10	1540	Tue	09304 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
18056	XPA2	28-10	1540	Tue	03934 00110 62903 ... 83400 05423 00140	MFSK-16/20Bd	(AB)
14663	XPA2	30-10	1812	Thu	i.p.	MFSK-16/20Bd	(AB)
13950	XPA2	30-10	1822	Thu	i.p.	MFSK-16/20Bd	(AB)
4153	XSL	10-10	2053	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
4231.5	XSL	10-10	2053	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
5417	XSL	10-10	2054	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
6250	XSL	10-10	2055	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
6445	XSL	10-10	2055	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
8313	XSL	10-10	2056	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
8588	XSL	10-10	2057	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)
8703.5	XSL	10-10	2057	Fri	Japanese Navy a.k.a. Slot Machine	QOSK 1500Bd	(AB)

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